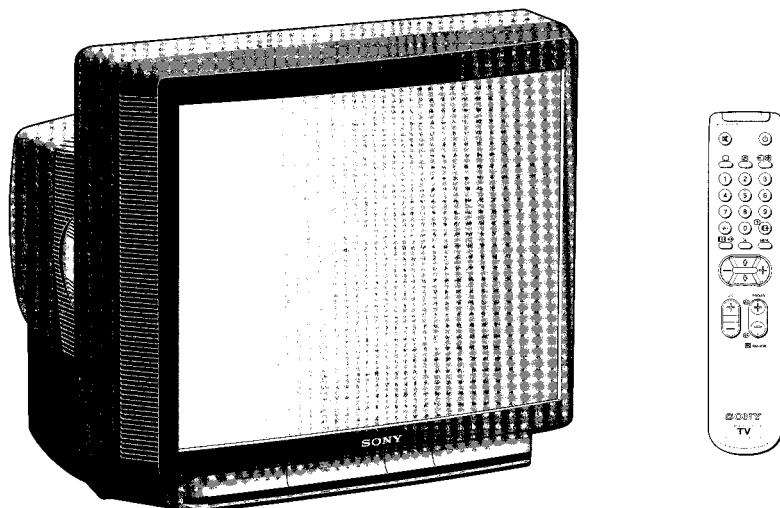


SERVICE MANUAL

BE-3D CHASSIS

| MODEL | COMMANDER | DEST. | CHASSIS NO. | MODEL | COMMANDER | DEST. | CHASSIS NO. |
|-----------------|-----------|---------|-------------|-----------------|-----------|-------|-------------|
| KV-29X1A | RM-839 | Italian | SCC-K05H-A | KV-29X1K | RM-839 | OIRT | SCC-K08Q-A |
| KV-29X1B | RM-839 | French | SCC-K01H-A | KV-29X1L | RM-839 | Irish | SCC-J21B-A |
| KV-29X1D | RM-839 | AEP | SCC-K07H-A | KV-29X1R | RM-839 | OIRT | SCC-K08R-A |
| KV-29X1E | RM-839 | Spanish | SCC-K06H-A | KV-29X1U | RM-839 | UK | SCC-K04F-A |



TRINITRON® COLOR TV
SONY®

| ITEM MODEL | Television System | Channel Coverage | Colour System |
|-------------|-------------------|--|---|
| Italian | B/G/H | VHF: E2-E12, S1-S20, A-H, H1,H2 UHF: E21-E69 | PAL NTSC3.58/4.43 (video input only) |
| French | B/G/H, D/K, L, I | L SECAM VHF: F2-F10 UHF: F21-F69 TV CABLE TV (1) VHF: B-Q UHF: S21-S44 PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 PAL I UHF: B21-B69 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, S42-S46 | PAL, SECAM NTSC3.58/4.43 (video input only) |
| AEP | B/G/H, D/K | B/G/H VHF: E2-E12 UHF: S1-S20 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, S42-S46 | PAL, SECAM NTSC3.58/4.43 (video input only) |
| Spanish | B/G/H, D/K | PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, S42-S46 | PAL, SECAM NTSC3.58/4.43 (video input only) |
| OIRT | B/G/H, D/K | B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, S42-S46 | PAL, SECAM NTSC3.58/4.43 (video input only) |
| Irish UK | I | UHF: U21-U69 | PAL NTSC3.58/4.43 (video input only) |

| MODEL | 29X1A | 29X1B | 29X1D | 29X1E | 29X1K 29X1R | 29X1L 29X1U |
|-------------------|-------|-------|-------|-------|----------------|----------------|
| Power Consumption | 87W | 101W | 101W | 101W | 101W | 149W |

SPECIFICATIONS

Picture Tube

Super Trinitron
Approx. 72 cm (29 inches)
(Approx. 68 cm picture measured
diagonally)
110° -deflection

[FRONT]

- 3 , Video input - phono jack
- 3 , Audio inputs - phono jacks
- 3 , S video input - 4 pin DIN
- Stereo minijack - headphone jack

Rear/Front Terminals

[REAR]

- 1 21-pin Euro connector (CENELEC standard)
 - Inputs for audio / video signals
 - Inputs for RGB
 - Outputs for TV audio and video signals
- 2/-→ 2, 21-pin Euro connector (CENELEC standard)
 - Inputs for audio / video signals
 - Inputs for S video
 - Outputs for TV audio and video signals (selectable)

Sound output

| | |
|----------------------|---|
| Left/Right | 2x10W (RMS) |
| | 2x20W (music power) |
| Dimensions | 676x557x528 mm approx. |
| Weight | Approx. 43.0 kg |
| Supplied accessories | RM-839 Remote Commander (1) Batteries R6 (2) Fastext, TOPTEXT |
| Other features | |

[RM-839]

| | |
|-----------------------|-------------------------------------|
| Remote control system | Infrared control |
| Power requirements | 3V dc (2 batteries) R6 (size AA) |
| Dimensions | Approx. 210x45x24 mm (w/h/d) |
| Weight | Approx. 90g (Not including battery) |

Design and specifications are subject to change without notice.

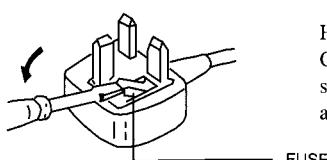
| Item \ Model name | KV-29X1A | KV-29X1B | KV-29X1D | KV-29X1E | KV-29X1K KV-29X1R | KV-29X1L KV-29X1U |
|-------------------|----------|----------|----------|----------|----------------------|----------------------|
| PIP | OFF | OFF | OFF | OFF | OFF | OFF |
| MPIP | OFF | OFF | OFF | OFF | OFF | OFF |
| Rotation Coil | ON | ON | ON | ON | ON | ON |
| VM Set | ON | ON | ON | ON | ON | ON |
| Scart 1 | ON | ON | ON | ON | ON | ON |
| Scart 2 | ON | ON | ON | ON | ON | ON |
| Front in (3) | ON | ON | ON | ON | ON | ON |
| Scart 4 | OFF | OFF | OFF | OFF | OFF | OFF |
| AKB in 16:9 mode | ON | ON | ON | ON | ON | ON |
| TXT | ON | ON | ON | ON | ON | ON |
| FLOF | ON | ON | ON | ON | ON | ON |
| TOP | ON | ON | ON | ON | ON | ON |
| Norm B/G/H | ON | ON | ON | ON | ON | OFF |
| Norm I | OFF | ON | OFF | OFF | OFF | ON |
| Norm D/K | OFF | ON | ON | ON | ON | OFF |
| Norm L | OFF | ON | OFF | OFF | OFF | OFF |
| Language Preset | Italian | French | German | Spanish | OIRT | English |

WARNING (KV-29X1L/29X1U only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA to BS 1362**, ie one that carries the  mark.

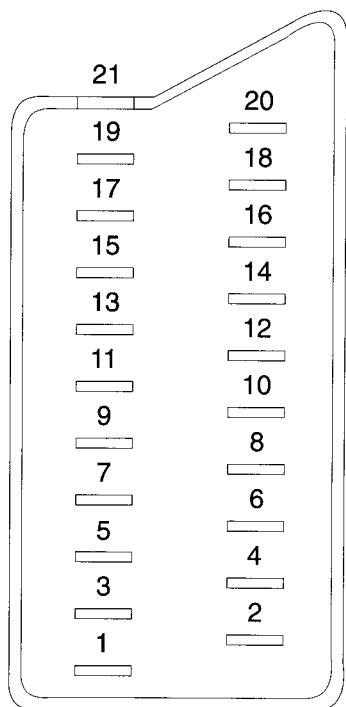
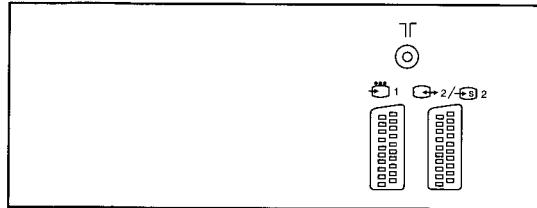
**IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME.
IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED.
THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.**

When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.



How to replace the fuse.
Open the fuse compartment with the screwdriver blade
and replace the fuse.

21 pin connector (1, 2 / 2)



| Pin No. | 1 | 2 | 4 | Signal | Signal Level |
|---------|---|---|---|------------------------------|---|
| 1 | ○ | ○ | ○ | Audio output B (Right) | Standard level : 0.5V rms Output impedance : Less than 1k ohms* |
| 2 | ○ | ○ | ○ | Audio input B (Right) | Standard level : 0.5V rms Output impedance : More than 10k ohms* |
| 3 | ○ | ○ | ○ | Audio output A (Left) | Standard level : 0.5V rms Output impedance : Less than 1k ohm* |
| 4 | ○ | ○ | ○ | Ground (Audio) | |
| 5 | ○ | ○ | ○ | Ground (Blue) | |
| 6 | ○ | ○ | ○ | Audio input A (Left) | Standard level : 0.5V rms Output impedance : Less than 10k ohm* |
| 7 | ○ | ● | ● | Blue input | 0.7 ± 3dB, 75 ohms, positive |
| 8 | ○ | ○ | ○ | Function select (AV control) | High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More than 10k ohms Input capacitance : Less than 2nF |
| 9 | ○ | ○ | ○ | Ground (Green) | |
| 10 | ○ | ○ | ○ | Open | |
| 11 | ○ | ● | ● | Green | |
| 12 | ○ | ○ | ○ | Open | |
| 13 | ○ | ○ | ○ | Ground (Red) | |
| 14 | ○ | ○ | ○ | Ground (Blanking) | |
| 15 | ○ | — | — | Red input | 0.7 ± 3dB, 75 ohms, positive |
| | — | ○ | ○ | (S signal) chroma input | 0.7 ± 3dB, 75 ohms, positive |
| 16 | ○ | ● | ● | Blanking input (Ys signal) | High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75 ohms |
| 17 | ○ | ○ | ○ | Ground (Video output) | |
| 18 | ○ | ○ | ○ | Ground (Video input) | |
| 19 | ○ | ○ | ○ | Video output | 1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB) |
| 20 | ○ | — | — | Video input | 1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB) |
| | — | ○ | ○ | Video input Y (S signal) | 1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB) |
| 21 | ○ | ○ | ○ | Common ground (plug, shield) | |

Connected Not Connected (Open) * at 20Hz - 20kHz

| Pin No. | Signal | Signal Level |
|---------|--------------------|---|
| 1 | Ground | |
| 2 | Ground | |
| 3 | Y (S signal) input | $1V \pm 3dB$ 75 ohm, positive Sync. $0.3V - 3 + 10dB$ |
| 4 | C (S signal) input | $0.3V \pm 3dB$ 75ohm, positive Sync. |

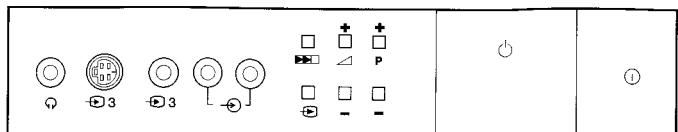


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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

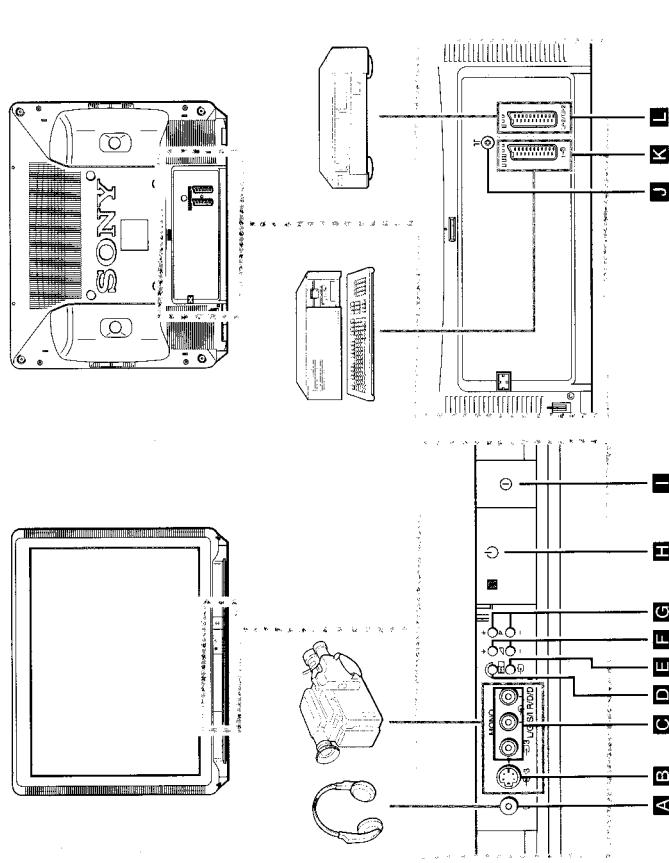
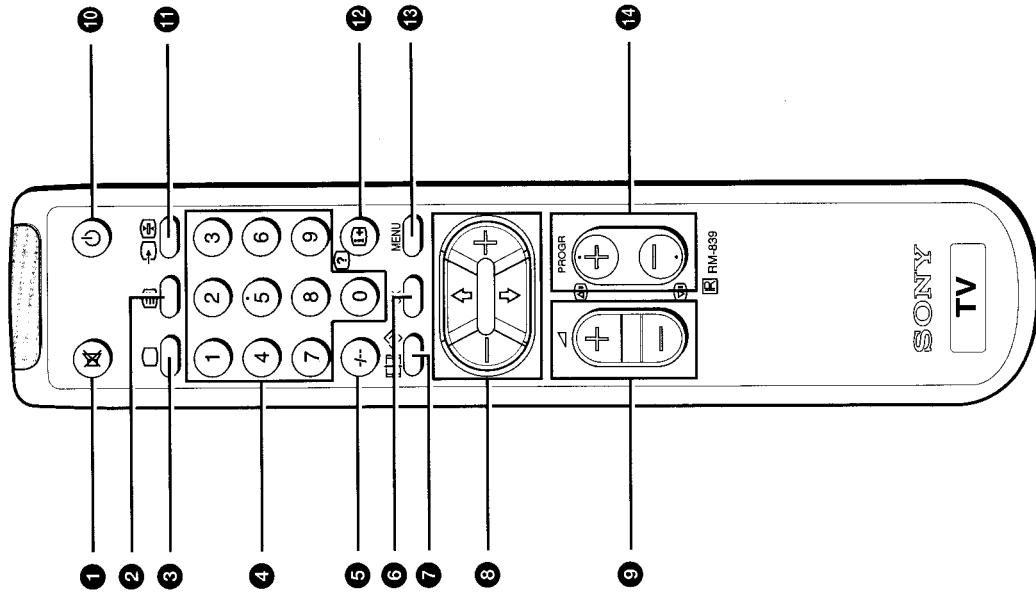
AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHASSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE. LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE A L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE  SUR LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplement publies par Sony.

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.



Overview

Overview

Overview

This section briefly describes the controls and the buttons on the TV set and on the Remote Commander. Please open the flap at the front of the instruction manual for illustrations of the TV set and the Remote Commander. Letters in boxes refer to the buttons on the TV set; numbers in circles to the buttons on the Remote Commander. For more information, refer to the page numbers given next to each description.

TV buttons and Terminals

| Reference and Symbol | Name | Refer to Page |
|-------------------------|---------------------------|---------------|
| Front of the set | | |
| A | Headphones jack | 4 |
| B | S video input jack | 29 |
| C | Audio / video input jacks | 29 |
| D | Automatic Preset button | 11 |
| E | Input mode button | 13 |
| F | Volume control | 12 |
| G | Programme button | 12 |
| H | Standby mode indicator | 12 |
| I | Main power switch | 12 |
| Rear of the set | | |
| J | Aerial socket | 10 |
| K | 21 pin Euro connector | 29 |
| L | 21 pin Euro connector | 29 |

Remote Commander Operation

| Reference and Symbol | Name | Refer to Page |
|----------------------|---------------------------------------|---------------|
| TV buttons | | |
| ① | Muting on/off button | 12 |
| ② | Teletext button | 13 |
| ③ | TV power on/TV mode button | 12, 13 |
| ④ | Number buttons | 12 |
| ⑤ | Double digit entering button | 12 |
| ⑥ | OK (Confirmation) button | 14 |
| ⑦ | Screen format button | 12, 28 |
| ⑧ | Teletext: Favourite pages button | 14 |
| ⑨ | Menu control | 14 |
| ⑩ | Volume control button | 12 |
| ⑪ | Standby button | 12 |
| ⑫ | Input mode button | 12, 27 |
| ⑬ | On-screen display button | 12, 27 |
| ⑭ | Teletext: reveal button | 13, 27 |
| ⑮ | Main power switch | 14 |
| ⑯ | Programme buttons | 12, 13 |
| ⑰ | Teletext: Page up / page down buttons | 12, 13 |
| Terminals | | |
| ⑱ | 21 pin Euro connector | 29 |
| ⑲ | 21 pin Euro connector | 29 |

Step 1**Connecting the Aerial**

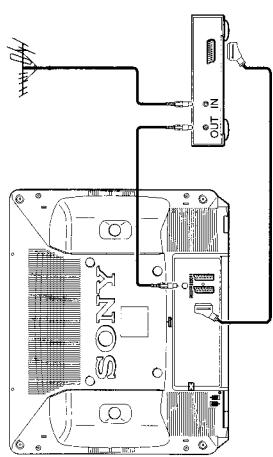
(If you connect a VCR, skip to step 2)

Insert the aerial plug tightly into the aerial socket   Use a good-quality aerial cable (not supplied), corresponding to the relevant regulations.

Step 2**Connecting a VCR**

We recommend that you tune in the VCR signal to programme number "0". For details, see "Presetting Channels Manually" on page 16.

See "Connecting Optional Equipment" on page 29 for more information.

**Step 4****Presetting Channels Automatically**

With this function, the TV can automatically search and store up to 100 different channel numbers.

If you prefer manual presetting, refer to "Presetting Channels Manually" on page 16.

Step 2

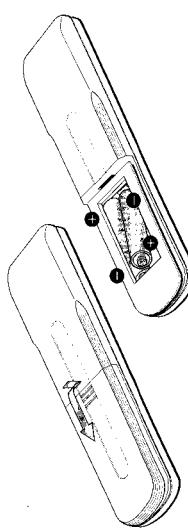
1 Plug into mains.
Press the power switch  on the TV set.

2 Press and hold the button   on the TV set until the automatic menu is displayed and the search starts.

After all available channels are stored, the normal TV picture is shown.

Note: Channels are automatically stored as follows:

| KV25X1U/29X1U | KV-25X1L/29X1L |
|------------------------|------------------------|
| Programme 1 BBC1 | Programme 1 RTE1 |
| Programme 2 BBC2 | Programme 2 RTE2 |
| Programme 3 ITV | Programme 3 BBC1 |
| Programme 4 CH4 or S4C | Programme 4 BBC2 |
| | Programme 5 ITV |
| | Programme 6 CH4 or S4C |

Step 3**Inserting the Batteries Into the Remote Commander**

Respect your environment! Dispose of used batteries in an environmentally friendly way.

TV Operation

This section explains functions used whilst watching TV. Most operations are carried out using the remote commander (numbers in circles). All basic functions are also available on the TV set (letters in boxes). Open the flap at the front of the Instruction Manual to see the illustrations of the Remote Commander and the TV set.

TV Operation

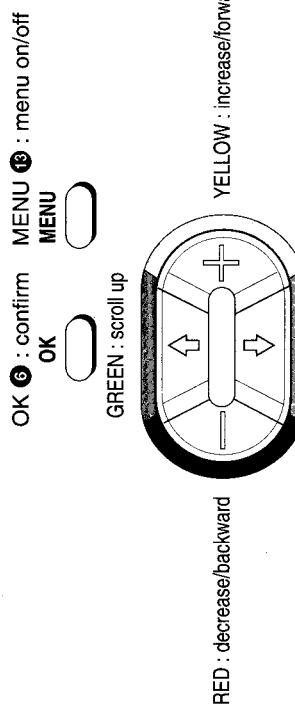
| To | Press |
|-------------------------------|---|
| Switch on | ① I on TV |
| Switch off temporarily | ⑤ ⑩ TV is now in standby mode and ⑤ H indicator on TV lights up. |
| Switch on from standby mode | ② ③, PROGR + / - ④ G or any number button ④ . |
| Switch off completely | ① I on TV To save energy, switch off your TV completely when TV is not in use. |
| Select programmes | PROGR + / - ④ G or number buttons ④ For double digit number, press - / - ⑤ then the number e.g. For 23, press - / - ⑤ then 2 and 3. |
| Display on screen indications | ⑫ ⑬. Press again to make the indications disappear. |
| Adjust the volume | △ + or - ⑨ F |
| Mute the sound | ⑩ ⑪. Press again to restore the sound. |
| View programmes in 16:9 mode | ⑪ ⑦. Press again to return to 4:3 mode. |

TV Operation (continued)

| To | Press |
|---|---|
| View video input picture (see page 30 for detailed information) | ② ⑪ E repeatedly until the desired video input appears. Press ② ③ to restore the TV picture. |
| View teletext (see page 27 for detailed information) | Switch on |
| Select a page | ⑩ ② |
| Use fasttext | three number buttons ④ or ⑩ ⑭ (for next page) or ⑩ ⑮ (for previous page). |
| Switch off | ② ③ |

Adjusting and Setting the TV Using the Menu

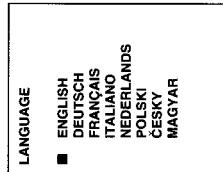
You can adjust and set various functions on the TV using the following remote commander buttons:



Choosing the Menu Language

This function enables you to change the language of the menu screens.

- 1 Press power switch ① **I** on the TV. If the standby indicator **H** on the TV is lit, press **□** ③ or a number button **④** on the Remote Commander.
- 2 Press the MENU button **⑬** on the remote commander.

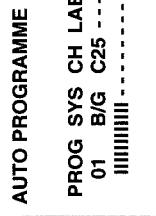


- 3 Press blue or green **⑧** to select the language you want then press yellow **⑨**.
- 4 Press the MENU button **⑬** to restore the normal TV picture.

Presetting Channels Automatically

You may have already preset the channels automatically by using the method shown on page 11. You can also preset channels automatically by using the remote commander as follows:

- 1 Press the MENU button **⑬**.
- 2 Press blue or green **⑧** to select the symbol **■** on the menu screen then press yellow **⑨**.
- 3 Press blue or green **⑧** to select 'AUTO PROGRAMME'.
- 4 Press and hold yellow **⑨** until the automatic menu is displayed and the search starts.
After all available channels have been preset, the normal TV picture is shown.



Presetting Channels Manually

This function enables you to preset channels one by one to different programme numbers. This is also convenient for allocating programme numbers to various video input sources.

1 Press the MENU button **③**.



2 Press blue or green **⑧** to select the symbol on the menu screen then press yellow **⑧**.

| MANUAL PROGRAMME PRES | | | | |
|-----------------------|-----|------|-------|-----|
| PROG | SYS | CHAN | LABEL | AFT |
| 1 | BIG | C 1 | ----- | ON |
| 2 | BIG | C 4 | ----- | ON |
| 3 | BIG | C12 | ----- | ON |
| ■ 4 | BIG | C22 | ----- | ON |
| 5 | BIG | C33 | ----- | ON |
| 6 | BIG | C41 | ----- | ON |
| 7 | BIG | C17 | ----- | ON |
| 8 | BIG | C32 | ----- | ON |

3 Press blue or green **⑧** to select 'MANUAL PROGRAMME' then press yellow **⑧**.

4 Press blue or green **⑧** to select on which programme number you want to preset a channel then press yellow **⑧**.

5 Press blue or green **⑧** to select the TV broadcast system 'T' or a video input source (AV1, AV2, ...) then press yellow **⑧**.

6 (This step 6 is only for KV-25X1L/29X1L)
Press blue or green **⑧** to select 'C' (for terrestrial channels) or 'S' (for cable channels) then press yellow **⑧**.

7 Select the first number digit of 'CHAN' then the second number digit of 'CHAN' with the number buttons **④** on the remote commander
or
Press blue or green **⑧** to search for the next available channel number.

8 If you want to store the channel number, go to step 9. If not, select a new channel number using the number buttons **④** on the remote commander or press blue or green **⑧** to resume the search.

9 Press OK **⑥**.

10 Repeat steps 4 to 9 to preset other channels.

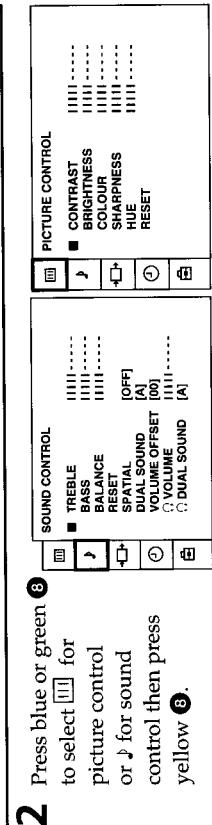
11 Press the MENU button **⑬** to restore the normal TV picture.

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste.

Adjusting the Picture and Sound (continued)

1 Press the MENU button ⑯.



3 Press blue or green ⑧ to select the desired item then press yellow ③.

4 Press red or yellow ⑧ to alter the item then press OK ⑥.

For the effect of each control, see the following tables.

5 Repeat steps 3 and 4 to adjust the other items.

6 Press the MENU button ⑯ to restore the normal TV picture.

| SOUND CONTROL | Effect |
|---------------|--|
| Treble | Less — — More |
| Bass | Less — — More |
| Balance | Left — — Right |
| Reset | Resets sound to the factory preset levels. |
| Spatial | Acoustic sound effect. |
| Dual Sound | A: Left channel —> B: Right channel —> stereo —> mono B: Right channel —> A: Left channel —> stereo —> mono |
| Volume Offset | Presets the volume level for individual programmes. |
| Volume | -12 — 0 — +12 Adjusts the headphone volume. |
| Dual Sound | Presets the headphone channels. A: Left channel —> B: Right channel —> stereo —> mono |

| PICTURE CONTROL | Effect |
|-----------------|--|
| Contrast | Lower — — Higher |
| Brightness | Darker — — Brighter |
| Colour | Less — — More |
| Sharpness | Softer — — Sharper |
| Hue | Greenish — — Reddish (NTSC signals only) |
| Reset | Resets picture to the factory preset levels. |

Manual Fine-Tuning

Normally, the automatic fine-tuning (AFT) function is operating.

If the picture is distorted however, you can manually fine-tune the TV to obtain a better picture reception.

1 Press the MENU button **⑬**.

2 Press blue or green **⑧** to select the symbol  on the menu screen then press yellow **⑨**.

| MANUAL PROGRAMME PRESET | | | |
|-------------------------|-----|------|-------|
| PROG | SYS | CHAN | LABEL |
| 1 | BIG | C 1 | ON |
| 2 | BIG | C 4 | ----- |
| 3 | BIG | C12 | ON |
| ■ 4 | BIG | C22 | ----- |
| 5 | BIG | C33 | ----- |
| 6 | BIG | C41 | ----- |
| 7 | BIG | C17 | ----- |
| 8 | BIG | C32 | ON |

4 Press blue or green **⑧** to select 'MANUAL PROGRAMME' then press yellow **⑨**.

5 Press yellow **⑨** repeatedly until the AFT position changes colour..

6 Press blue or green **⑧** to change the frequency of the channel from -15 to +15.

7 Press OK **⑥**.

8 Repeat steps 4 to 7 to fine-tune other channels.

9 Press the MENU button **⑬** to restore the normal TV picture.

Sorting Programme Positions

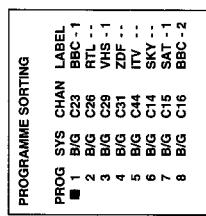
This function enables you to move channels to different programme numbers.

1 Press the MENU button **⑬**.

2 Press blue or green **⑧** to select the symbol  on the menu screen then press yellow **⑨**.



3 Press blue or green **⑧** to select 'PROGRAMME SORTING' then press yellow **⑨**.



4 Press blue or green **⑧** to select the channel you want to move to another programme number then press yellow **⑨**.

5 Press blue or green **⑧** to select the programme number to which you want to move the channel selected in step 4 then press yellow **⑨**.

6 Repeat steps 4 to 5 if you wish to move other channels to different programme numbers.

7 Press the MENU button **⑬** to restore the normal TV picture.

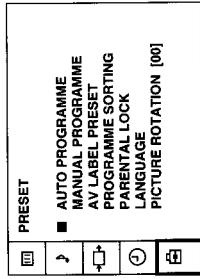
Using Parental Lock

This function enables you to prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

1 Press the MENU button ⑬.

2 Press blue or green ⑧ to select the symbol ④ on the menu screen then press yellow ⑨.

3 Press blue or green ⑧ to select 'PARENTAL LOCK' then press yellow ⑨.



4 Press blue or green ⑧ to select the channel you want to block then press yellow ⑨. The symbol ④ appears before the programme number to indicate that this channel is now blocked.

| PARENTAL LOCK | | |
|---------------|-----|------------|
| PROG | SYS | CHAN |
| ■ 1 | BIG | C23 BBC -1 |
| 2 | BIG | C26 RTL - |
| 3 | BIG | C29 VHS -1 |
| 4 | BIG | C31 ZDF - |
| 5 | BIG | C44 ITV - |
| 6 | BIG | C14 SKY - |
| 7 | BIG | C15 SAT -1 |
| 8 | BIG | C16 BBC -2 |

5 Repeat step 4 if you wish to block other channels.

6 Press the MENU button ⑬ to restore the normal TV picture.

Note: To unblock, press yellow ⑨ after selecting the channel to unblock in the 'PARENTAL LOCK' menu.

Using the Sleep Timer

This function enables you to select a time period after which the TV automatically switches into standby mode.

1 Press the MENU button ⑬.

2 Press blue or green ⑧ to select the symbol ④ on the menu screen then press yellow ⑨.

3 Press yellow ⑨.

4 Press red or yellow ⑨ to set time delay and press OK ⑥.

OFF 0:30 1:00 1:30 3:30 4:00

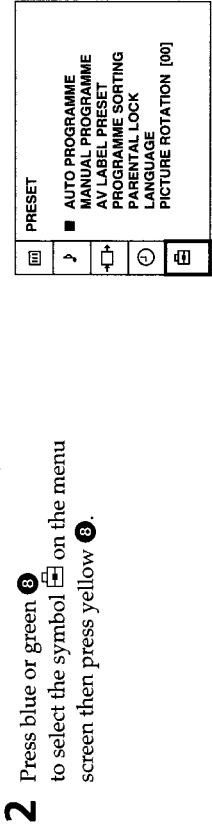
One minute before the TV switches into standby mode, a message is displayed on the screen.

5 Press the MENU button ⑬ to restore the normal TV picture.

Adjusting the Picture Rotation

If, due to the earth magnetism, the picture slants, you can use the function 'Picture Rotation' to readjust the picture.

1 Press the MENU button ⑬.



2 Press blue or green ⑧ to select the symbol on the menu screen then press yellow ⑧.

3 Press blue or green ⑧ to select 'PICTURE ROTATION' then press yellow ⑧.

4 Press red or yellow ⑧ to adjust the picture rotation then press OK ⑯. The adjusting range is -5 to +5.

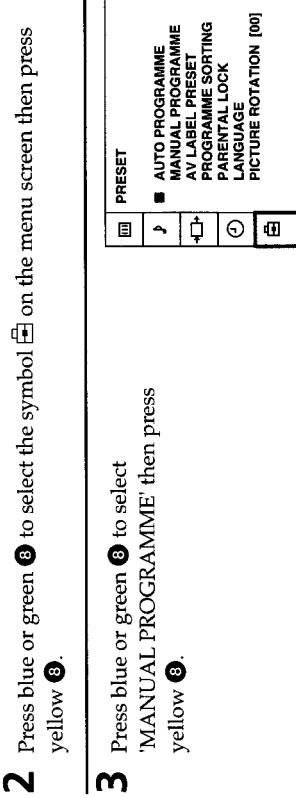
5 Press the MENU button ⑬ to restore the normal TV picture.

Skipping Programme Positions

This function enables you to skip unused channels when selecting programme numbers with the PROG R+/- buttons. However, you can still watch the skipped channel(s) by using the number buttons.

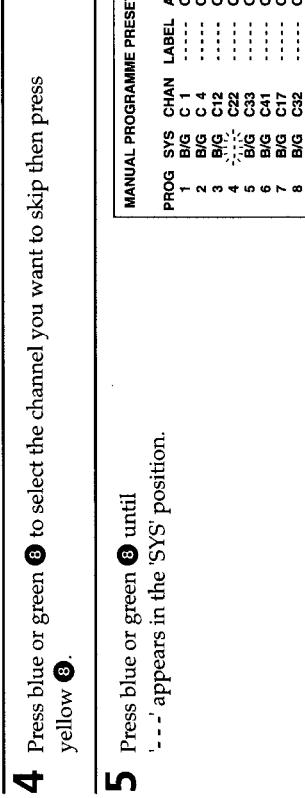
1 Press the MENU button ⑬.

2 Press blue or green ⑧ to select the symbol on the menu screen then press yellow ⑧.



3 Press blue or green ⑧ to select 'MANUAL PROGRAMME' then press yellow ⑧.

4 Press blue or green ⑧ to select the channel you want to skip then press yellow ⑧.



5 Press blue or green ⑧ until '---' appears in the 'SYS' position.

6 Press OK ⑯.

7 Repeat steps 4 to 6 to skip other channels.

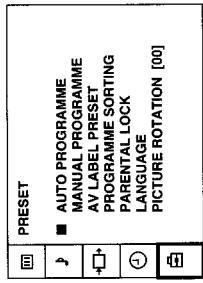
8 Press the MENU button ⑬ to restore the normal TV picture.

Captioning a Station Name

Names for channels are usually automatically taken from teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers).

1 Press the MENU button ⑬.

2 Press blue or green ⑧ to select the symbol on the menu screen then press yellow ⑨.



4 Press blue or green ⑧ to select the channel you wish to caption then press yellow ⑨ repeatedly until the first element of the 'LABEL' position is highlighted.

5 Press ⑥ blue or green to select a letter or number and press yellow ⑨ (select '-' for a blank). Select other characters in the same way.

| MANUAL PROGRAMME PRESET | | | |
|-------------------------|-----|------|-----------|
| PROG | SYS | CHAN | LABEL |
| 1 | BIG | C 1 | - - - - - |
| 2 | BIG | C 4 | - - - - - |
| 3 | BIG | C 12 | - - - - - |
| 4 | BIG | C 22 | K - - - - |
| 5 | BIG | C 33 | - - - - - |
| 6 | BIG | C 41 | - - - - - |
| 7 | BIG | C 17 | - - - - - |
| 8 | BIG | C 32 | - - - - - |

6 After selecting all the characters, press OK ⑩.

7 Repeat steps 4 to 6 to caption names for other channels.

8 Press the MENU button ⑬ to restore the normal TV screen.

Most TV channels broadcast information via teletext. The index page of the broadcaster (usually page 100) gives you information on how to use the service.
Make sure you use a TV channel with a strong signal, otherwise teletext errors may occur.

Switching Teletext On and Off

1 Select the channel which carries the teletext service you wish to view.

2 Press ② to display teletext. If no teletext signal is broadcast, the indication P100 is displayed on a black screen.

3 Input three digits for the page number using the number buttons ④. The page counter searches for the page and after some seconds the page is displayed.

4 Press ③ to return to the normal TV picture.

Using Other Teletext Functions

To **Press**

④ for the next page or
 ⑤ for the preceding page

② when in teletext mode.
Now the teletext page is superimposed on the TV programme. Press again to return to the normal teletext display.

⑪. Press once again to cancel.

⑫. Press once again to cancel.
(eg: answers to a quiz)

Favourite page system

You can store up to four of your favourite teletext pages per Teletext service. In this way you have quick access to the pages you frequently use.

Storing pages

1 Use the number buttons **④** to select the page you would like to store.

2 Press \leftrightarrow **⑦** twice.

The colour prompts at the bottom of the screen flash.

3 Press red, green, blue or yellow to store the selected page.

The page is now stored on this colour.

Repeat steps 1 to 3 for the other 3 pages.

Displaying the Favourite Pages

1 Press \leftrightarrow **⑦**.

2 Press blue, green, red or yellow to select the desired page.

Make sure you press \leftrightarrow **⑦**, otherwise the normal Fastext facility operates.

Using Fastext

(only available, if the TV station broadcasts Fastext signals)

With Fastext you can access pages with one key stroke. When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue colours on the Remote Commander.

Press the Remote Commander colour button that corresponds to the colour-coded menu. The selected page is displayed after some seconds.

Connecting Optional Equipment

There is a wide range of optional equipment you can connect to your TV.
Refer to the illustrations on the front flap page of this manual.

| Symbol | Acceptable input signals | Available output signals |
|--|----------------------------------|------------------------------------|
| \rightarrow 3, \rightarrow 3 B | Normal audio / video and S video | No output |
| \rightarrow 3 C | | |
| \rightarrow 1 K | Normal audio / video and RGB | Audio / video from TV tuner |
| \rightarrow 2 / \rightarrow 2 I | Normal audio / video and S video | Audio / video from selected source |

About S video input

Video signals may be separated into Y (luminance) and C (chrominance) signals. Separating the two signals prevents interference and thus improves the picture quality.

Notes on connections:

If the picture or sound is distorted, move the VCR away from the TV.
When connecting a monaural VCR, connect only the white jack to both the TV and VCR.

Selecting Input and Output Signals

This section explains how to select the output signal from $\rightarrow 2/\square 2$ **L** and how to select and view the input. You can use direct access buttons $\rightarrow ① E$ to select the input or the menu system to select input and output.

Selecting With Direct Access Buttons

Press $\rightarrow ① E$ repeatedly.

Press **□** **③** to restore the normal TV picture.

| Symbol on the screen | Input Signal |
|----------------------|--|
| $\rightarrow 1$ | Audio / video through Euro AV connector K |
| $\rightarrow 2$ | RGB through Euro AV connector K |
| $\rightarrow 2$ | Audio / video through Euro AV connector L |
| $\rightarrow 2$ | S video through Euro AV connector L |
| $\rightarrow 3$ | Audio / video through the phono jacks C |
| $\rightarrow 3$ | S video through the phono jacks B |

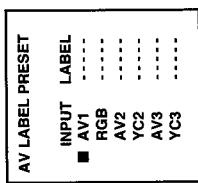
Using AV Label Preset

This function enables you to label the input sources using up to five characters (letters or numbers).

1 Press the MENU button **⑬**.

2 Press blue or green **⑧** to select the symbol **E** on the screen then press yellow **⑨**.

3 Press blue or green **⑧** to select 'AV LABEL PRESET' then press yellow **⑨**.

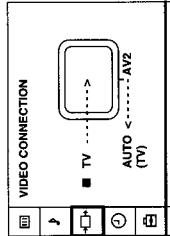


4 Press blue or green **⑧** to select the desired input source then press yellow **⑨**.

Selecting With the Video Connection Menu

1 Press the MENU button **⑬**.

2 Press blue or green **⑧** to select $\rightarrow \square \rightarrow$ for "VIDEO CONNECTION" then press yellow **⑨**.



6 After selecting all the characters, press OK **⑥**.

7 Repeat steps 4 to 6 to label other input sources.

8 Press the MENU button **⑬** to restore the normal TV screen.

3 Press blue or green to select input or output then press yellow **⑨**.

4 Press blue or green repeatedly to select the desired input or output source then press OK **⑥**.

5 Press the MENU button **⑬** to restore the normal TV picture.

Note: If you select 'AUTO' for output, the output source automatically becomes the same as the desired input source.

Troubleshooting

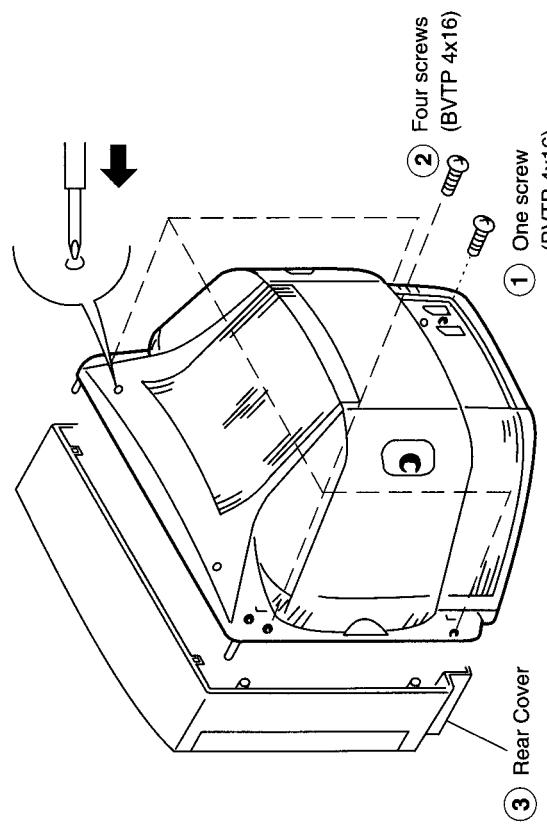
Here are some simple solutions to the problems which affect the picture and sound.

| Problem | Solution |
|---|---|
| No picture (screen is dark), no sound | <ul style="list-style-type: none"> • Plug the TV in. • Press ① on the TV. (If ⑤, indicator H is on, press ② or a programme number ④ on the Remote Commander.) • Check the aerial connection. • Check if the selected video source is on. • Turn the TV off for 3 or 4 seconds then turn it on again using ①. |
| Poor or no picture (screen is dark), but good sound | <ul style="list-style-type: none"> • Press MENU ③ to enter the 'PICTURE' CONTROL menu and adjust 'Contrast', 'Brightness' and 'Colour'. |
| Poor picture quality when watching an RGB video source. | <ul style="list-style-type: none"> • Press ② ① E repeatedly to select ⑩. |
| Good picture but no sound | <ul style="list-style-type: none"> • Press ④ + ⑨ F. • If ⑩ is displayed on the screen, press ⑧ ①. |
| No colour for colour programmes | <ul style="list-style-type: none"> • Press MENU ③ to enter the 'PICTURE' CONTROL menu, select 'Reset' then press OK ⑥. |
| Remote Commander does not function. | <ul style="list-style-type: none"> • Replace the batteries. |

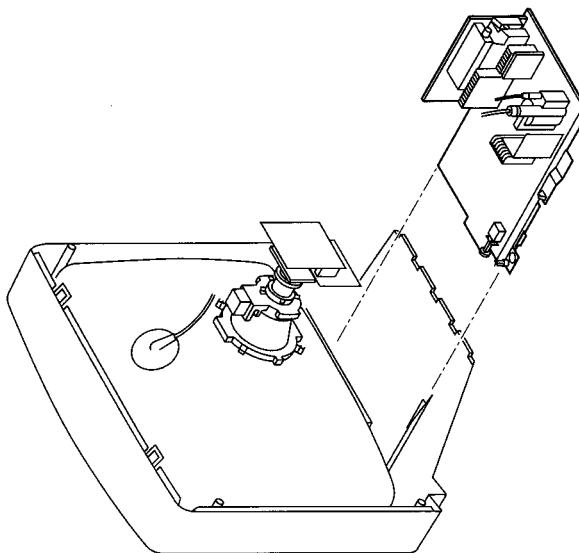
If you continue to have problems, have your TV serviced by qualified personnel.
Never open the casing yourself.

SECTION 2 DISASSEMBLY

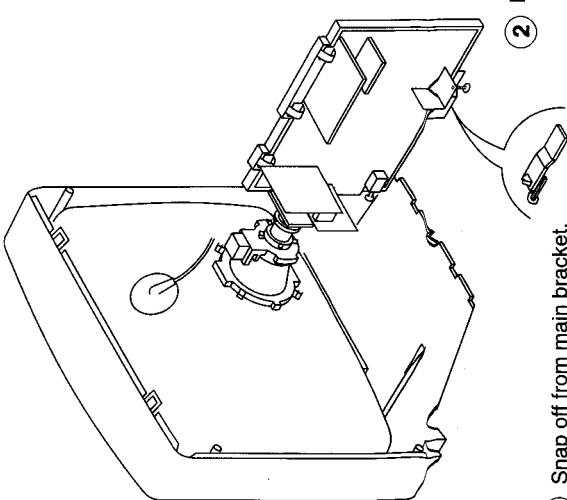
2-1. REAR COVER REMOVAL



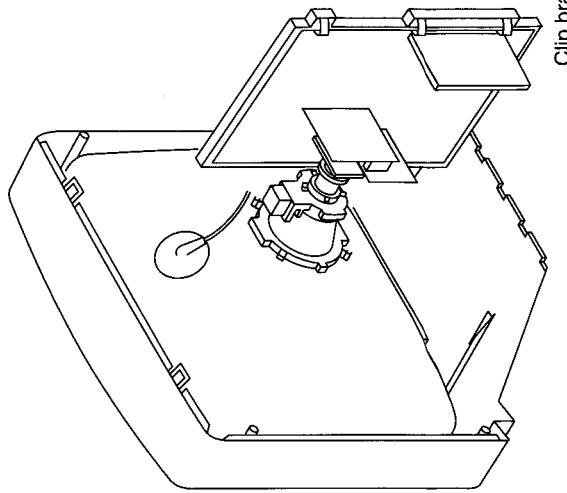
2-2. CHASSIS ASSY REMOVAL



2-3-1. SERVICE POSITION (1)



2-3-2. SERVICE POSITION (2)

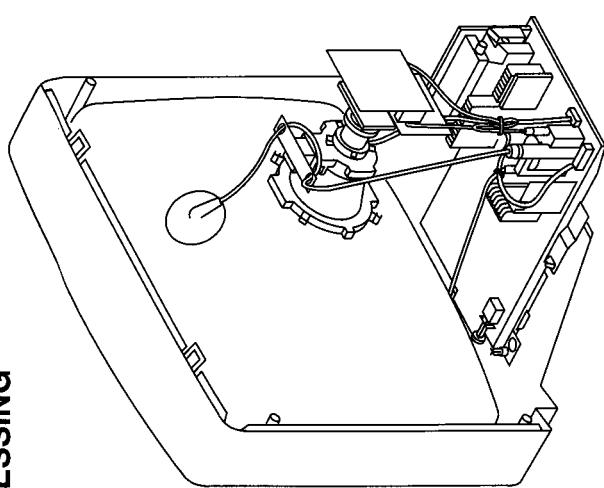


Clip bracket into Bezelnet.

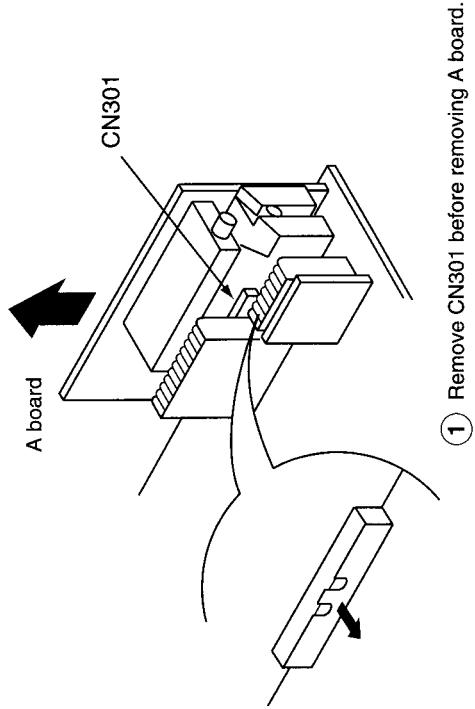
① Snap off from main bracket.

② Insert into heatsink.

2-4. WIRE DRESSING

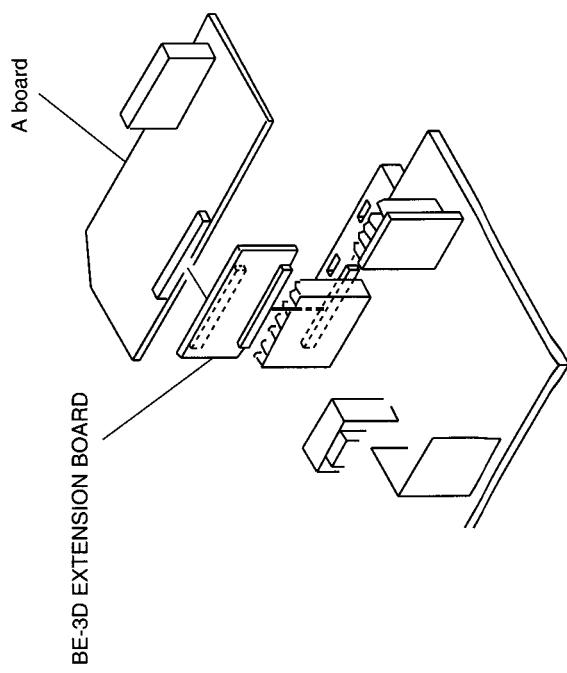


2-5. A BOARD REMOVAL



① Remove CN301 before removing A board.

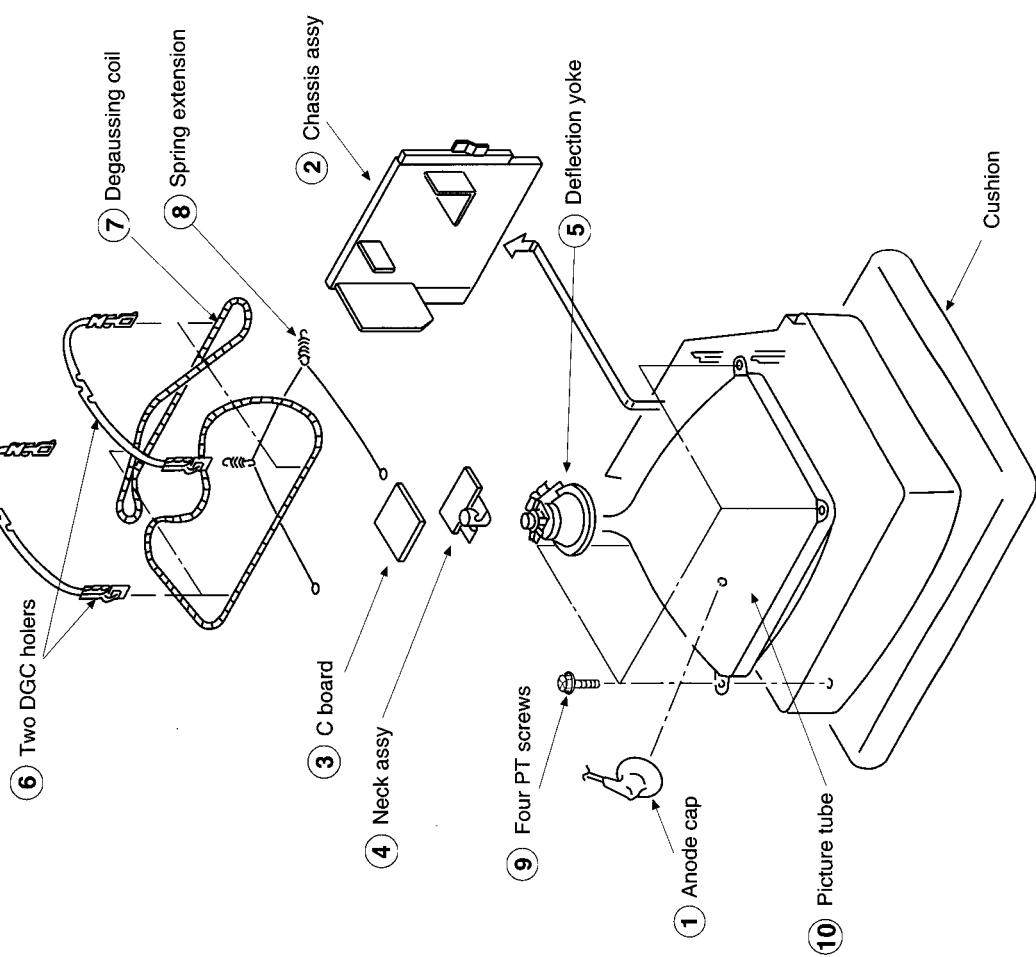
2-6. EXTENSION BOARD



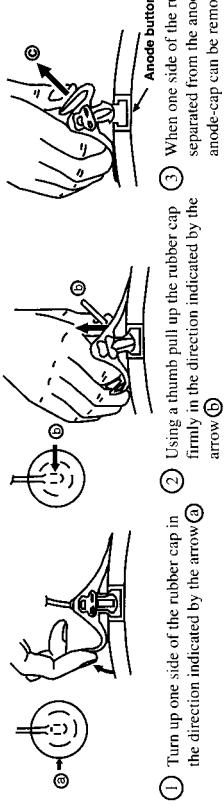
2-7. PICTURE TUBE REMOVAL

- **REMOVAL OF ANODE-CAP**

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.



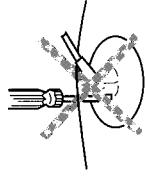
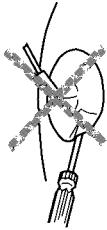
- * **REMOVING PROCEDURES.**



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ②
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ③
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ④

- **HOW TO HANDLE AN ANODE-CAP**

- Don't damage the surface of anode-cap with sharp shaped material !
- ① Don't damage the surface of anode-cap with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !
- A metal fitting called as shatter-hook terminal is built into the rubber.
- ③ Don't turn the foot of rubber over hardly !
- The shatter-hook terminal will stick out or damage the rubber.



REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed circuit, the bottom plates fitted to the main chassis bracket require to be removed. This is performed by cutting the gates with a sharp wire cutter at the locations shown and indicated by arrows.

Note : There are 5 plates fitted to the main bracket and secured by 4 or 6 gates.
Only remove the necessary plate to gain access to the circuit board.

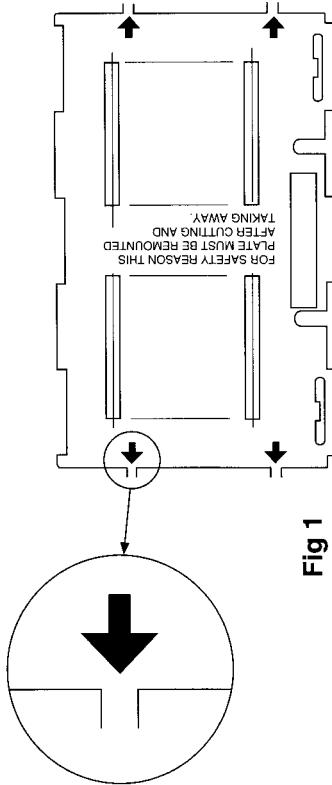


Fig 1

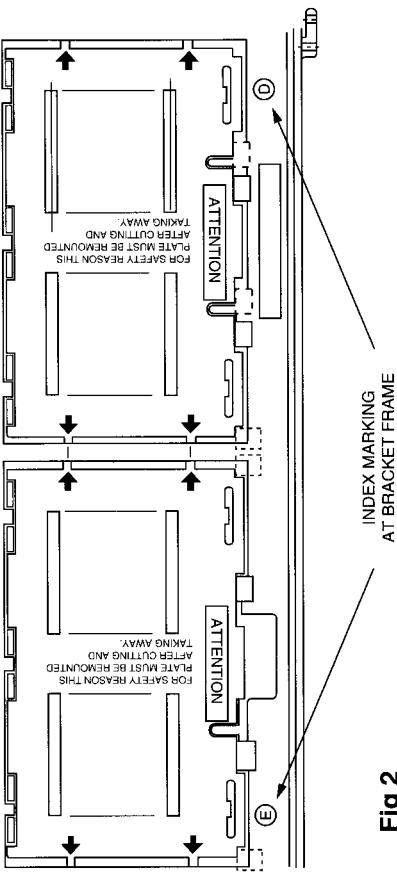


Fig 2

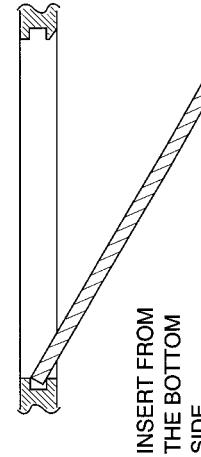


Fig 3

In the event of the plates requiring to be removed at a later stage, this can be achieved by inserting a screwdriver in the snap-recess indicated as in Fig 4 and lifting out.

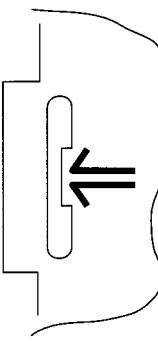


Fig 4

INSERT FROM
THE BOTTOM
SIDE

! For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.
The plates are identified by markings A-B-C-D-E on their top side.

1. Identify the plate by locating its marking.
2. Turn the plate over noting where the marking is located.
3. Locate the corresponding marking indicated on the main chassis bracket. See Fig 2.
4. Refit the plate as indicated in Fig 3 with the markings located next to each other.

SECTION 3

SET - UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to these settings :
 - Contrast 80% (or remote control normal)
 - ⊗ Brightness 50%

- Carry out the following adjustments in this order :

1. Beam landing
2. Convergence
3. Focus
4. White balance

Note: Testing equipment required.

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
CONTRAST } normal
BRIGHTNESS }
2. Position neck assy as shown in Fig.3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke forward and adjust with the purity control so that the red is at the centre and the blue and the green take up equally sized areas on each side. (See Fig. 3-1 - 3-3)
5. Move the deflection yoke forward and adjust so that the entire screen becomes red. (See Fig. 3-1)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig. 3-4)

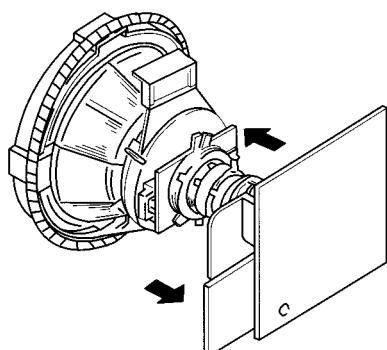


Fig. 3-1

Fig. 3-2

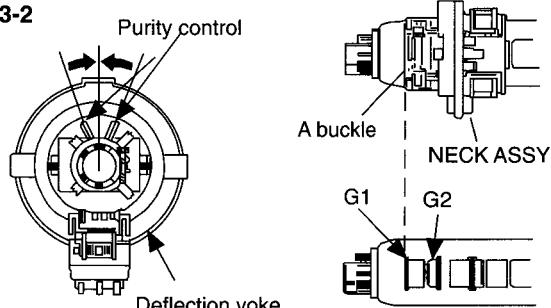


Fig. 3-3

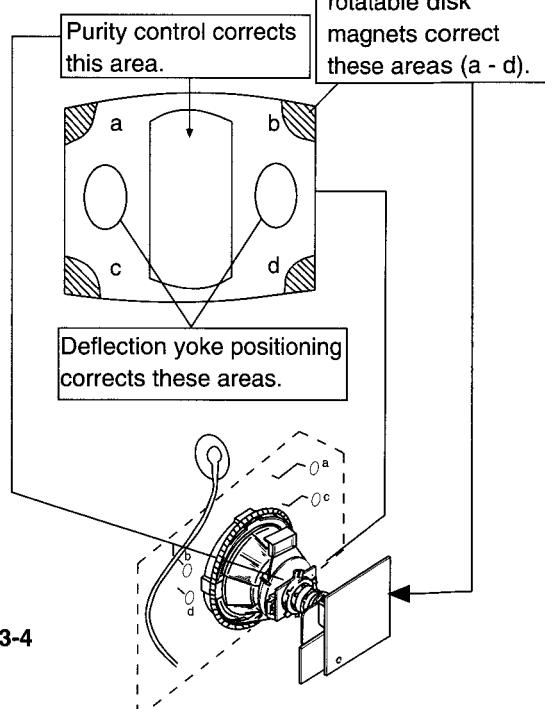
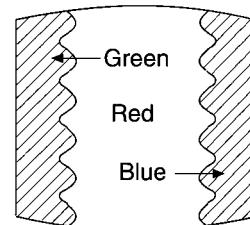


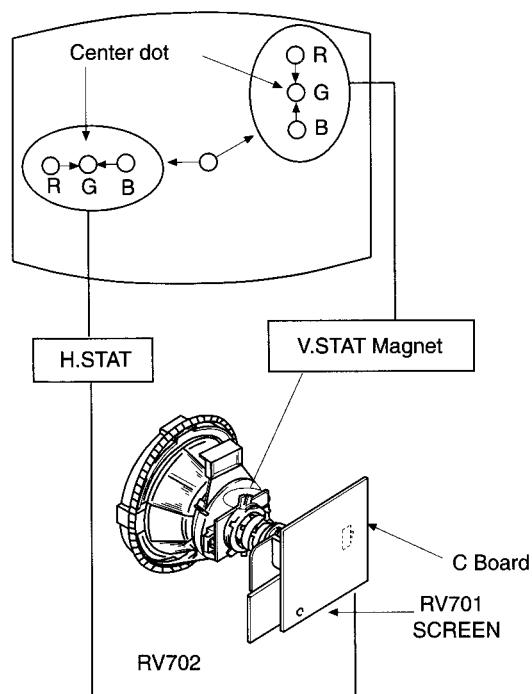
Fig. 3-4

3-2. CONVERGENCE

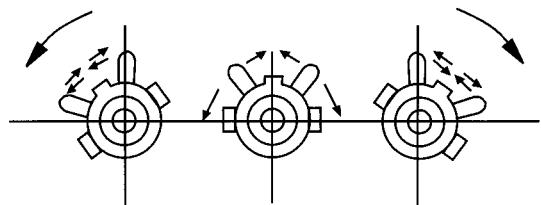
Preparation:

- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide a dot pattern.

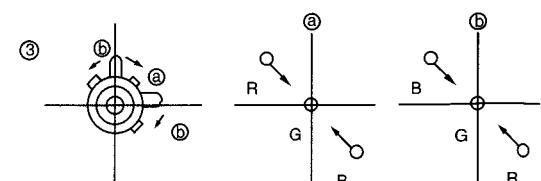
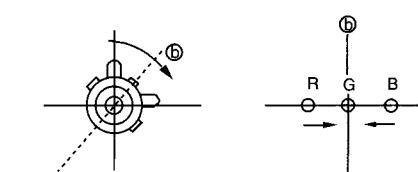
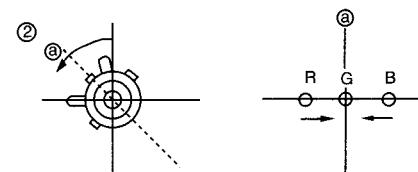
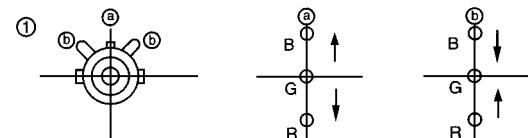
(1) Horizontal and vertical static convergence



- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

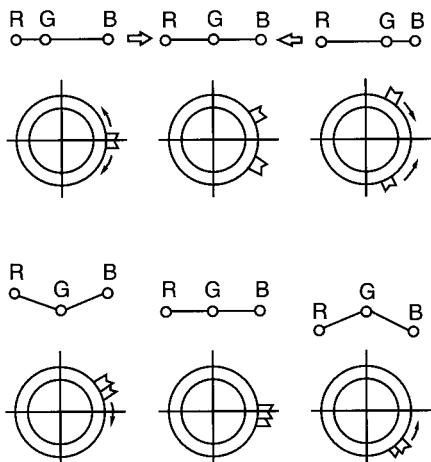


- If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.

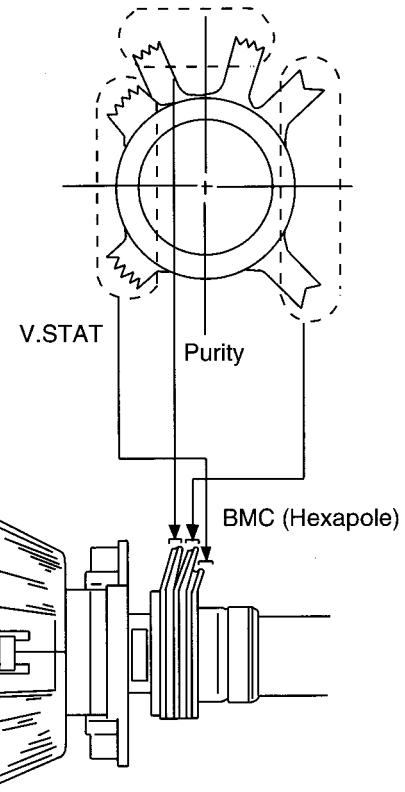


- (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the centre of the screen.
- (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the centre of the screen.
- If the H.STAT variable resistor cannot bring the red, green, and blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

- Operation of BMC (Hexapole) Magnet



- The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the centre of the screen (by moving the dots in the horizontal direction).

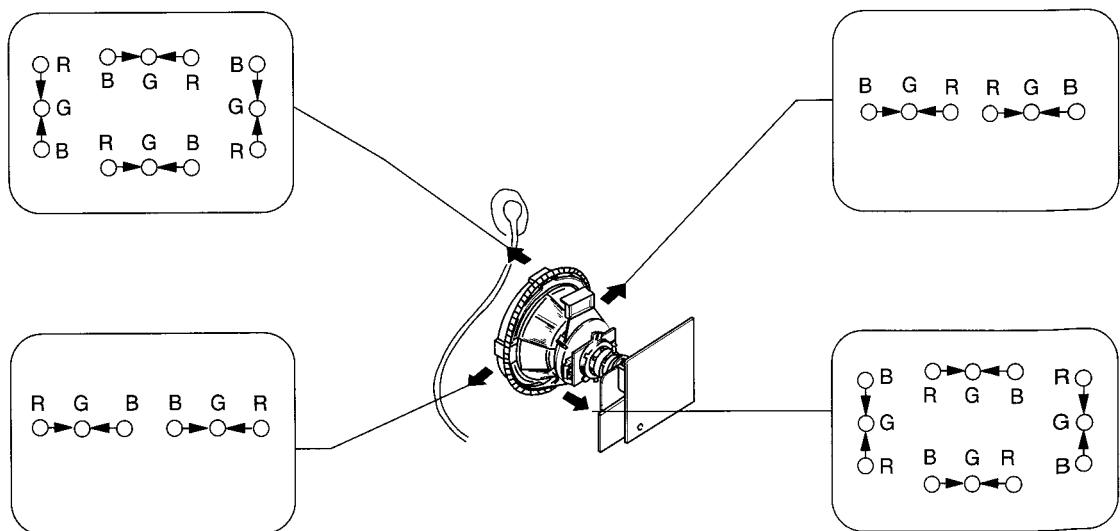


(2) Dynamic convergence adjustment.

Preparation:

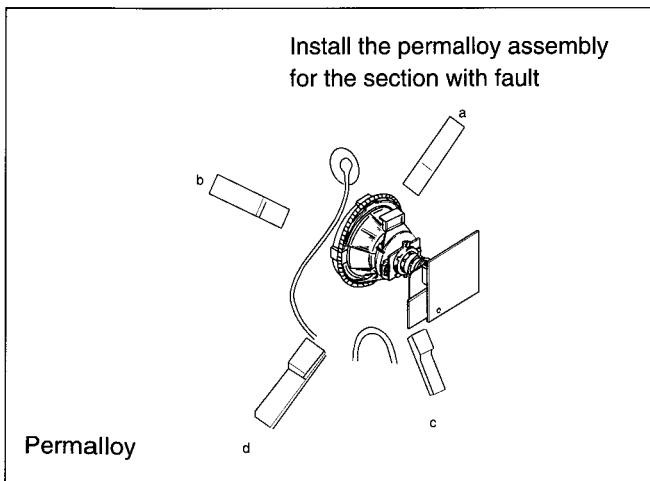
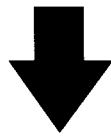
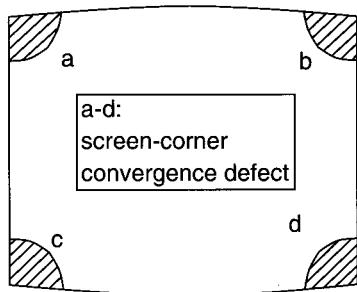
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- 1. Slightly loosen the deflection yoke screws.

2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Re-install the deflection yoke spacer.



(3) Screen corner convergence.

If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.

**3-3. WHITE BALANCE****G2 Setting**

1. Switch the set into AV mode (apply no signal to the AV connectors).
2. Connect a Volt Meter to Test Point 1 on the A board.
3. Adjust RV01 to obtain a voltage of $3.0V \pm 0.3V$.

White balance adjustment

1. Input an all white signal from the pattern generator.
2. Enter into the service mode.
3. Enter into Picture Adjustment service menu.
4. Select sub-contrast and adjust to 7.
5. Select the Green Drive and adjust so that the white balance becomes optimum.
6. Select the Blue Drive and adjust so that the white balance becomes optimum.
7. Press the TV button to return to TV operation.

PICTURE ADJUSTMENT

| | |
|-----------------|-----|
| AFC mode | 1 |
| REF position | 2 |
| SCP BGR | 1 |
| SCP BGF | 1 |
| Trap Fo | 0 |
| Sub contrast | Adj |
| Sub colour | Adj |
| Sub brightness | Adj |
| Sub hue | Adj |
| Green drive | Adj |
| Blue drive | Adj |
| Green cutoff | Adj |
| Blue cutoff | Adj |
| Gamma | 0 |
| Pre / overshoot | 0 |
| Y delay | 3 |

SECTION 4

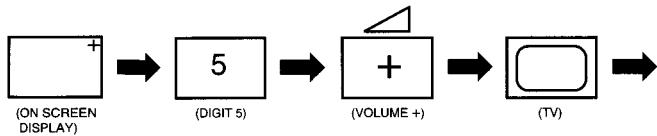
CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-839.

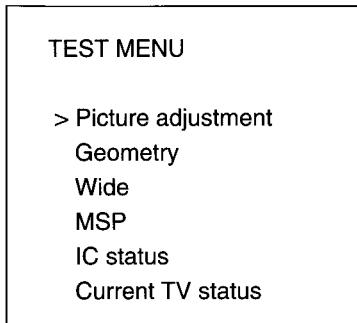
HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set and enter into standby mode.
2. Press the following sequence of buttons on the Remote Commander.



"TT--" will appear in the top right corner of the screen. Other status information will also be displayed.

3. Press MENU on the commander to obtain the following menu on the screen.



4. Move to the corresponding adjustment using the ↓ button on the commander.
5. Press the + button to enter the selected adjustment.
6. Turn off the power to quit the service mode when adjustments are completed.

PICTURE ADJUSTMENT

| | |
|-----------------|-----|
| AFC mode | 1 |
| REF position | 3 |
| SCP BGR | 1 |
| SCP BGF | 1 |
| Trap Fo | 7 |
| Sub contrast | Adj |
| Sub colour | Adj |
| Sub brightness | Adj |
| Sub hue | Adj |
| Green drive | Adj |
| Blue drive | Adj |
| Green cutoff | Adj |
| Blue cutoff | Adj |
| Gamma | 0 |
| Pre / overshoot | 0 |
| Y delay | 5 |

GEOMETRY ADJUSTMENT

| | |
|--------------|-----|
| V Size | Adj |
| V Position | Adj |
| S Correction | Adj |
| V Linearity | Adj |
| H Size | Adj |
| H Position | Adj |
| Pin Amp | Adj |
| Pin Phase | Adj |
| AFC Bow | Adj |
| AFC Angle | Adj |
| EHT V | Adj |
| EHT H | Adj |
| Corner Pin | Adj |

WIDE

| | |
|----------------|----|
| V Aspect | 43 |
| V Scroll | 31 |
| Upper V Lin | 0 |
| Lower V Lin | 0 |
| Left Blanking | 1 |
| Right Blanking | 11 |

| MSP | |
|---------------------|-----|
| AGC ON/OFF | ON |
| Constant gain CDB | 0 |
| FM prescale FMP | 36 |
| Zwei mono-st WHI | 36 |
| Zwei st-mono WLO | 18 |
| Zwei mono-bi WMH | 36 |
| Zwei bi-mono WLO | 18 |
| Time zwei WML | 41 |
| Fawct limit | 10 |
| Fawct soll init FAW | 12 |
| Fawer tol | 2 |
| Nicam Err Max CCT | 10 |
| Nicam Err Min | 0 |
| Nicam Prescale NIP | 97 |
| Time Nicam | 31 |
| Carrier mute CRM | OFF |
| Audio clock ACO | HIZ |
| Scart prescale | 25 |
| Scart volume | 64 |

IC STATUS (CXA2000 / CXA2040)

CXA2000

| | |
|---------------|---|
| H lock | 1 |
| IKR | 1 |
| VNG | 0 |
| X-RAY | 0 |
| Colour system | 3 |
| CV1 Sync | 1 |

CXA2040

| | |
|-------------|----|
| Sync sep | 1 |
| S1 mode pin | 01 |
| S2 mode pin | 01 |

TUNER

Tuner status 01101011

SUB BRIGHTNESS ADJUSTMENT

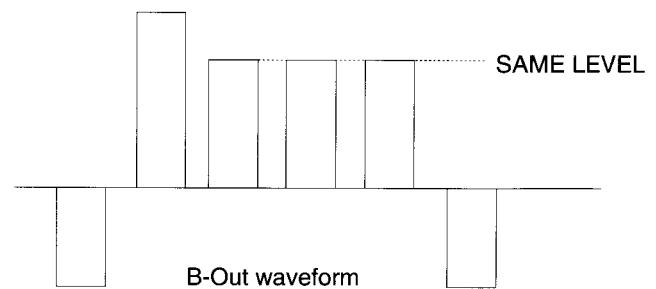
1. Input a Phillips pattern.
2. Set the picture control to minimum.
3. Enter into the Picture Adjustment Service Menu.
4. Adjust the Sub-Brightness data so that there is barely a difference between the 0 IRE and 10 IRE signal.

SUB CONTRAST ADJUSTMENT

1. Input a video that contains a small 100% area on a black background.
2. Set the picture control to maximum.
3. Connect an oscilloscope to pin 3 of CN301 (A board).
4. Enter into the Picture Adjustment Service Menu.
5. Adjust the Sub-contrast data to obtain a black to white amplitude of 2.50 volts.

SUB COLOUR ADJUSTMENT

1. Receive a PAL Colour Bar video signal.
2. Connect an oscilloscope to pin 3 of CN301 (A board).
3. Enter into the Picture Adjustment Service Menu.
4. Adjust the sub colour data so that cyan, magenta and blue colour bars are of equal height.

**TV STATUS**

| | |
|-------------------|-------------------|
| Text system | C TEXT/TV TEXT |
| Dolby | NO/YES |
| Text language set | WEST/EAST/RUSSIAN |
| Menu language set | WEST/EAST/RUSSIAN |
| Destination | B/D/U/K/L/E/A/R |
| Scart 16:9 | OFF/ON |
| RGB priority | OFF/ON |
| Ageing | OFF/ON |
| Size | 29/25 |
| Colour trap sw | SECAM/ALL |
| Velocity mod | ON/OFF |
| AFT STATUS | WINDOW/HIGH/LOW |

NOTE: The data shown in the TV STATUS table is dependant on destination, screen size and country.

SYSTEM B/G, D/K, I & L I.F ADJUSTMENT

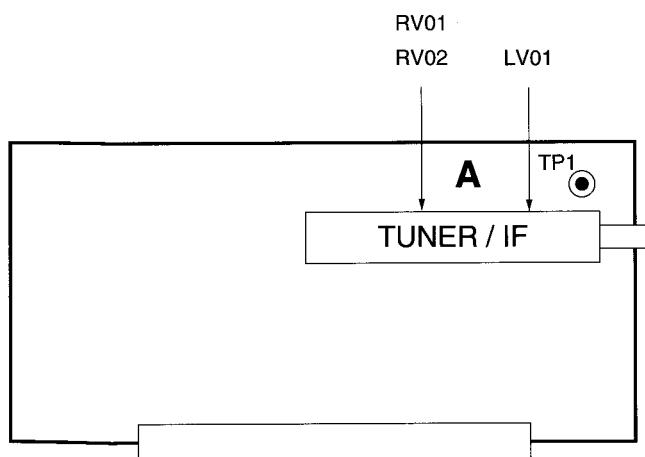
1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
2. Enter into the I.F adjustment service mode (i.e. " TT 59 ") to fix the I.F frequency to 38.9 MHz.
3. Enter into the service mode and select "Current TVStatus".
4. Adjust the I.F coil (LV01) until the "AFT Status" indicates a " Window " condition.

SYSTEM L BAND 1 I.F ADJUSTMENT

1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
2. Enter into the I.F adjustment service mode (i.e. " TT 59 ") to fix the I.F frequency to 34.2 MHz.
3. Enter into the service mode and select "Current TVStatus".
4. Adjust the RV02 until the "AFT Status" indicates a " Window " condition.

TUNER AGC ADJUSTMENT

1. Receive a signal of 63dBuV / 75 ohm terminated via the tuner socket.
2. Measure the voltage at test point 1 (A board).
3. Adjust RV01 to obtain a voltage of $3.0V \pm 0.3V$.



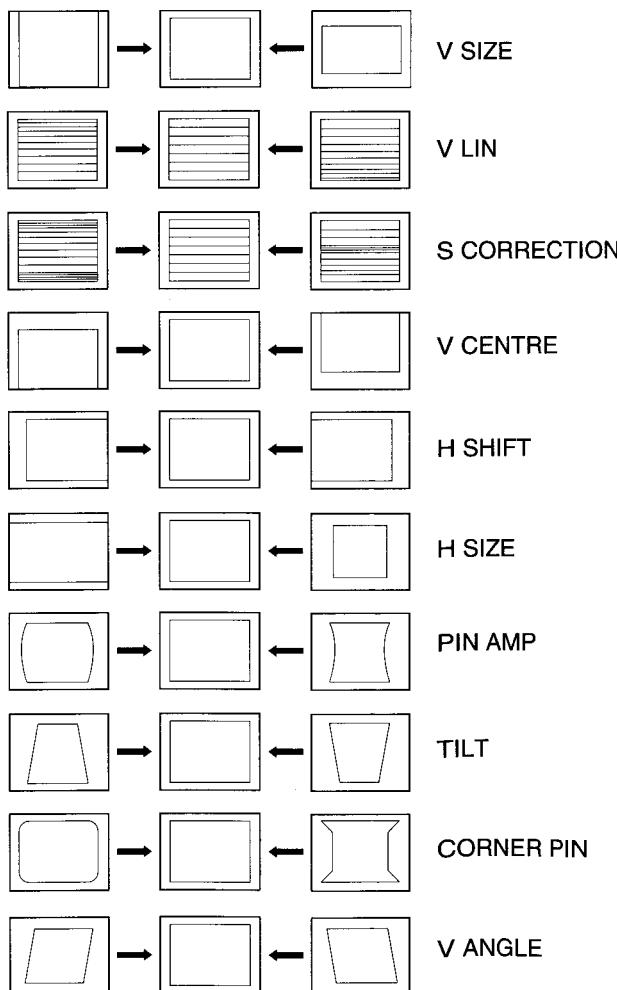
- A Board component side -

DEFLECTION SYSTEM ADJUSTMENT

1. Enter into the Geometry Adjustment Service Menu.
2. Select and adjust each item in order to obtain the optimum image.

GEOMETRY ADJUSTMENT

| | |
|--------------|-----|
| V Size | Adj |
| V Position | Adj |
| S Correction | Adj |
| V Linearity | Adj |
| H Size | Adj |
| H Position | Adj |
| Pin Amp | Adj |
| Pin Phase | Adj |
| AFC Bow | Adj |
| AFC Angle | Adj |
| EHT V | Adj |
| EHT H | Adj |
| Corner Pin | Adj |



4-2. TEST MODE 2:

Is available by pressing Test button twice, OSD " TT " appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press 0 twice, or switch the TV into stand-by mode.

| | |
|----|-----------------------------|
| 00 | Switch test mode 2 off |
| 01 | Picture maximum |
| 02 | Picture minimum |
| 03 | Volume 30% |
| 04 | Set service menu mode |
| 05 | Set production menu mode |
| 06 | Volume 80% |
| 07 | Set ageing condition |
| 08 | Set shipping condition |
| 09 | Language reset |
| 10 | No function |
| 11 | Adjustment without OSD |
| 12 | Dummy |
| 13 | Display TV configuration |
| 14 | Forced AV 6:9 mode |
| 15 | Reset LPM from ROM data |
| 16 | copy LPM to reset memory |
| 17 | Preset label for AV sources |
| 18 | RGB priority on/off |
| 19 | Clear all preset labels |
| 20 | No function |
| 21 | Sub contrast |
| 22 | Sub colour |
| 23 | Sub brightness |
| 24 | Set destination = U |
| 25 | Set destination = D |
| 26 | Set destination = B |
| 27 | Set destination = K |
| 28 | Set destination = L |
| 29 | Set destination = E |
| 30 | No function |
| 31 | Set destination = A |
| 32 | Dummy |
| 33 | Auto AGC |
| 34 | Dummy |
| 35 | Manual AGC adjust |

| | |
|-------|--------------------------------------|
| 36-40 | Dummy |
| 41 | Re-initialise NVM |
| 42 | Production use only |
| 43 | Initialise geometry settings |
| 44 | Initialise all favourite pages = 100 |
| 45 | Channel locks = off |
| 46 | Dealer commander mode |
| 47 | Default MSP settings |
| 48 | Restore NVM test byte |
| 49 | Delete NVM test byte |
| 50-60 | No function |
| 61 | Turn on Dolby Pro Logic mode |
| 62 | White noise to left speaker |
| 63 | White noise to right speaker |
| 64 | White noise to centre speaker |
| 65 | White noise to rear speaker |
| 66 | Set standard stereo mode |
| 67 | Set Pro Logic normal mode |
| 68 | Set Pro Logic wide mode |
| 69 | Set Pro Logic phantom mode |
| 70 | No function |
| 71 | Picture rotation on/off |
| 72 | Dolby register settings |
| 74 | No function |
| 75 | Reset picture colour balance |
| 76 | Reset picture geometry |
| 77 | Reset sound settings |
| 78 | Reset error codes in the NVM |
| 79-99 | No function |

4-3. BE-3D SELF DIAGNOSTIC SOFTWARE

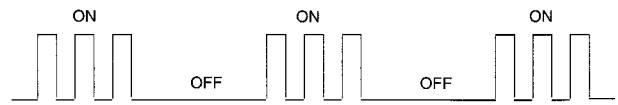
The identification of errors within the BE-3D chassis is triggered in 1 of 2 ways :- 1: Bus busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the led (Series of flashes which must be counted) See Table 1, non fatal errors are reported with this method.

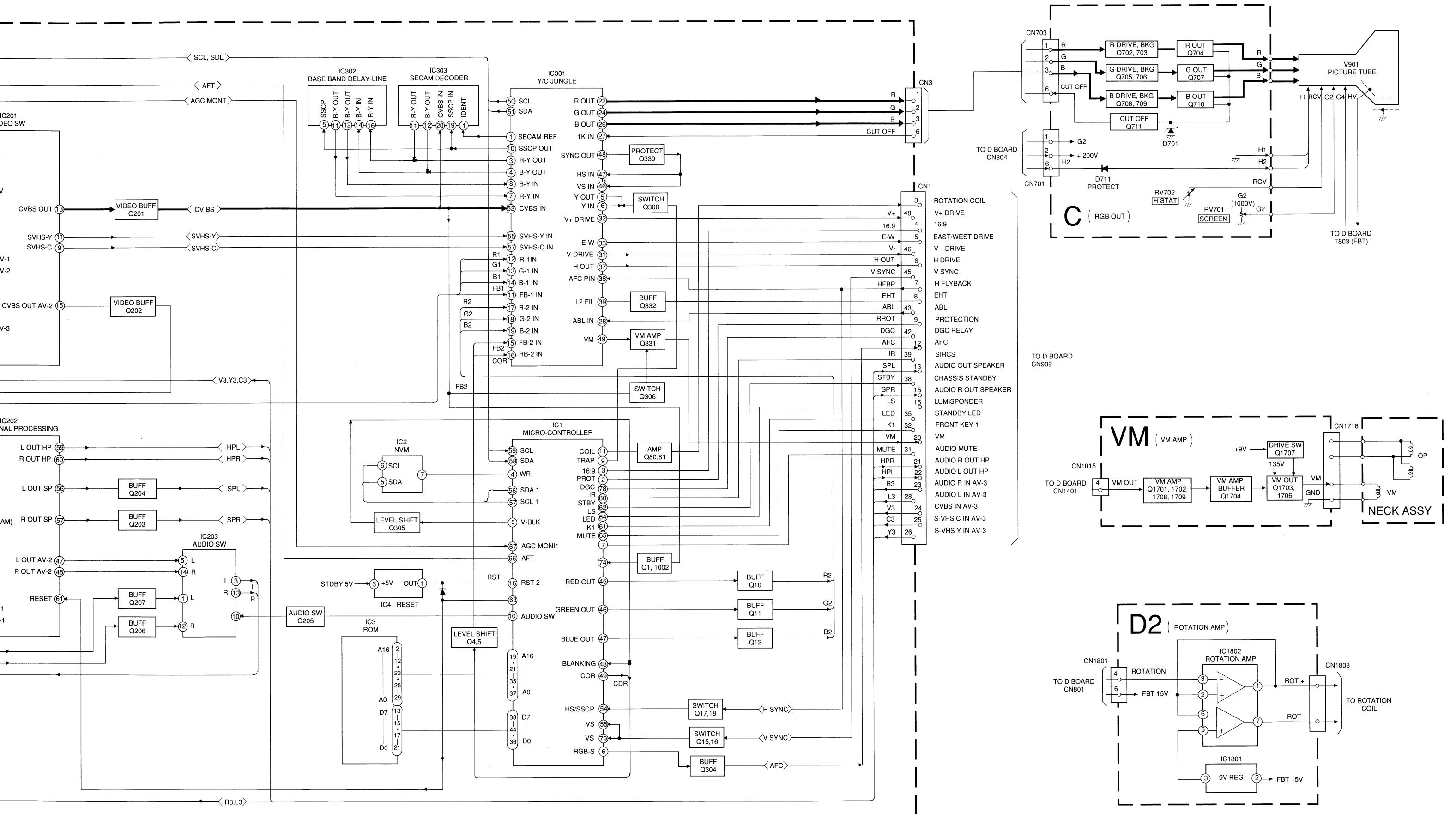
Table 1

| ERROR | LED ERROR COUNT |
|--|-----------------|
| Protection circuit trip < ANY TIME > | 02 |
| IIC SCL LOW < POWER UP ONLY > | 03 |
| IIC SDA LOW < POWER UP ONLY > | 04 |
| IIC SDA & SCL LOW < POWER UP ONLY > | 05 |
| Jungle/Chorama controller no acknowledge < POWER UP ONLY > | 06 |
| Video Switch no acknowledge < POWER UP ONLY > | 07 |
| Tuner no acknowledge | 08 |
| MSP no acknowledge | 09 |
| NVM no acknowledge | 10 |
| M3L TXD LOW < POWER UP ONLY > | 11 |
| M3L RXD LOW < POWER UP ONLY > | 12 |
| M3L ENABLE LOW < POWER UP ONLY > | 13 |
| M3L TXD & RXD LOW < POWER UP ONLY > | 14 |
| Compact Text test fail < POWER UP ONLY > | 15 |
| AV switch cannot power on reset | 16 |
| Cannot initialise jungle | 17 |
| NVM acknowledge fail after initialisation | 18 |
| Multiple devices with no acknowledge < POWER UP ONLY > | 19 |
| Compacttext run-time failure | 20 |
| AVSWITCH response failure after power up | 21 |
| JUNGLE/CHROMA controller response failure after power up | 22 |
| CompactText does not respond | 23 |

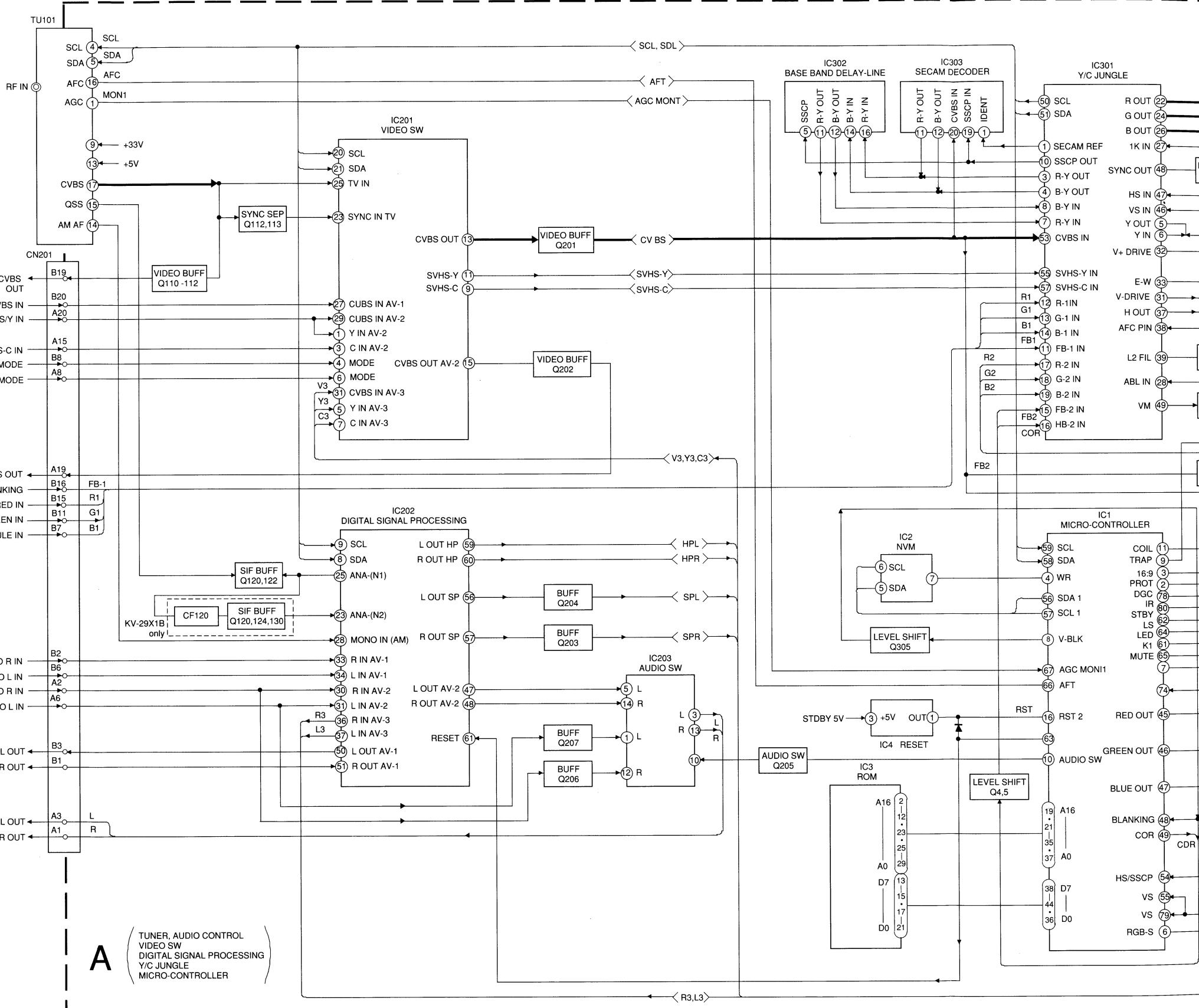
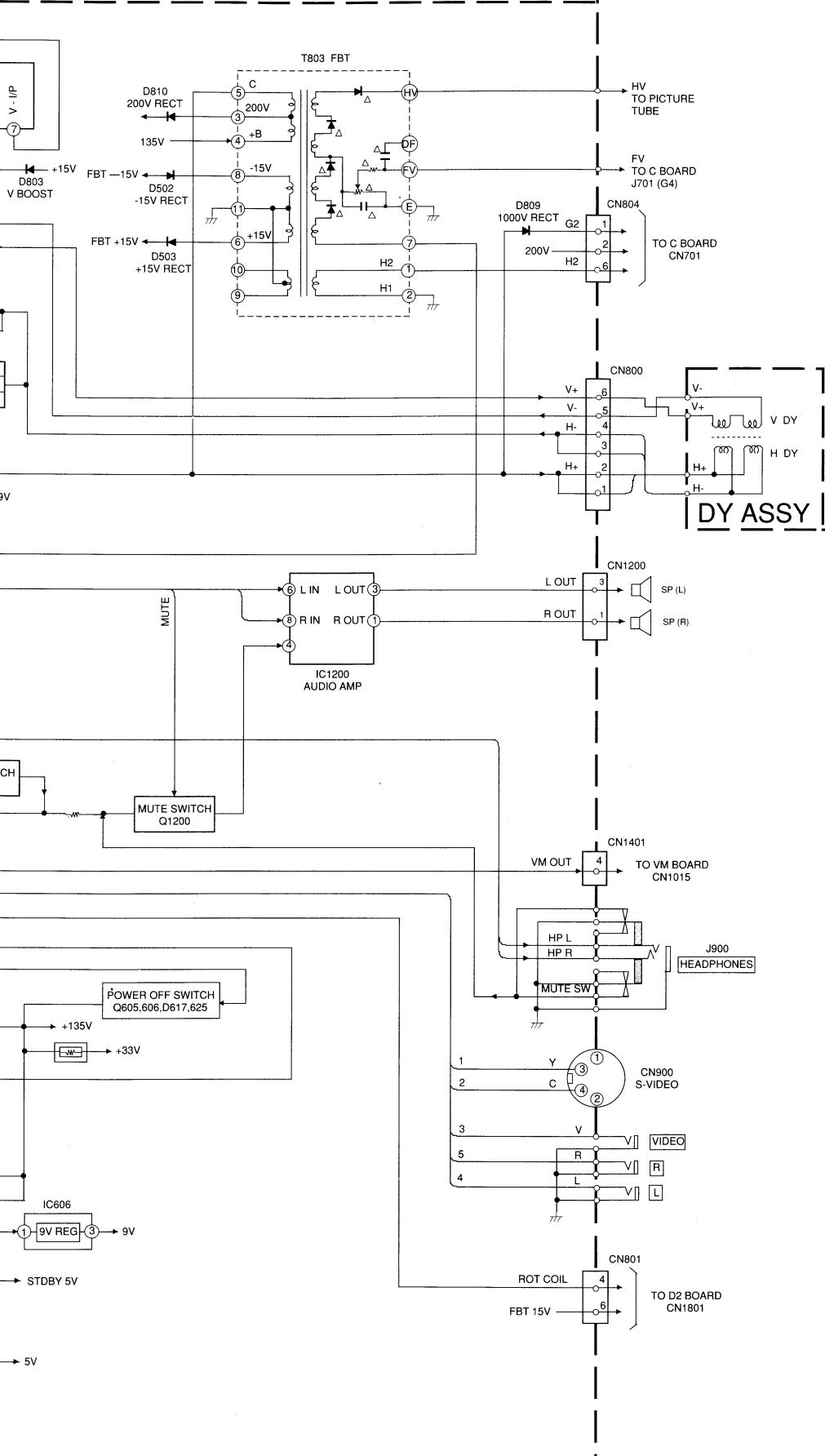
Flash Timing Example : e.g. error number 3.

Stby LED





BLOCK DIAGRAM (2)

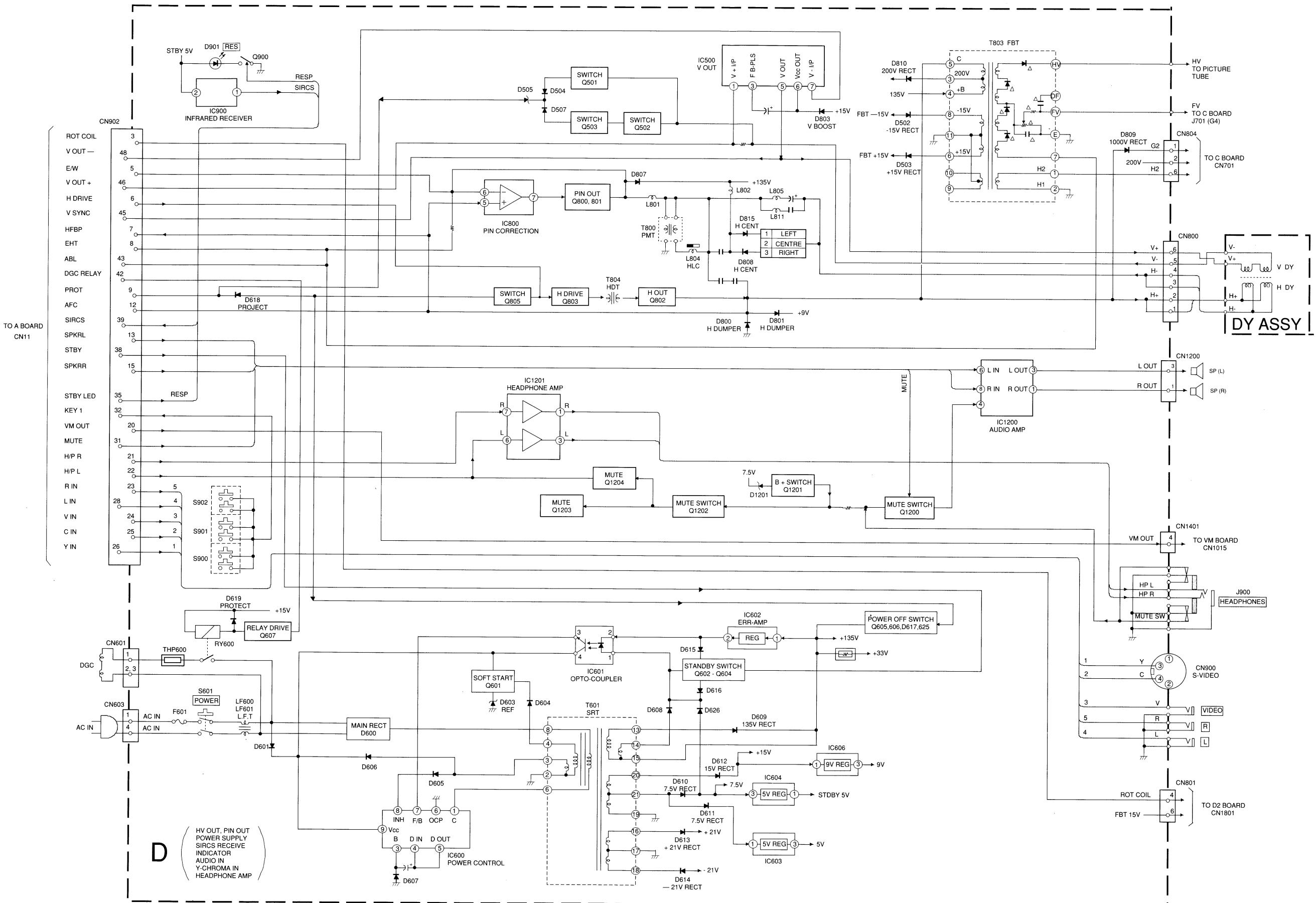


SECTION 5 DIAGRAMS

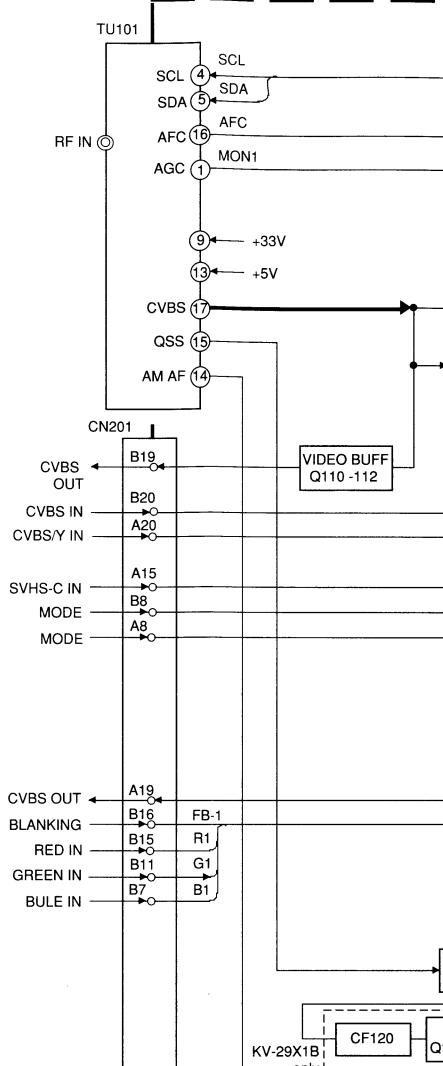
KV-29X1

KV-29X1

5-1. BLOCK DIAGRAM (1)



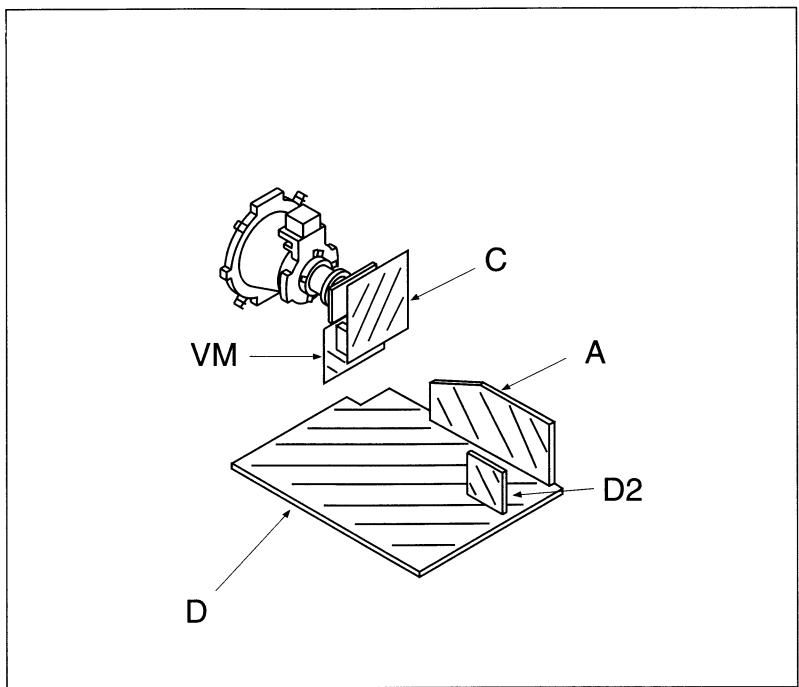
BLOCK DIAGRAM (2)



A

TUNER, AUDIO CONTROL
VIDEO SW
DIGITAL SIGNAL PROCE
Y/C JUNGLE
MICRO-CONTROLLER

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$
50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
 $k = 1000$, $M = 1000\text{K}$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm
Rating electrical power $\frac{1}{4} \text{ W}$

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth - ground.
- : earth - chassis.
- : no mounted.

Note : The components identified by shading and marked are critical for safety. Replace only with the part number specified.

Note : Les composants identifiés par une trame et une marque sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

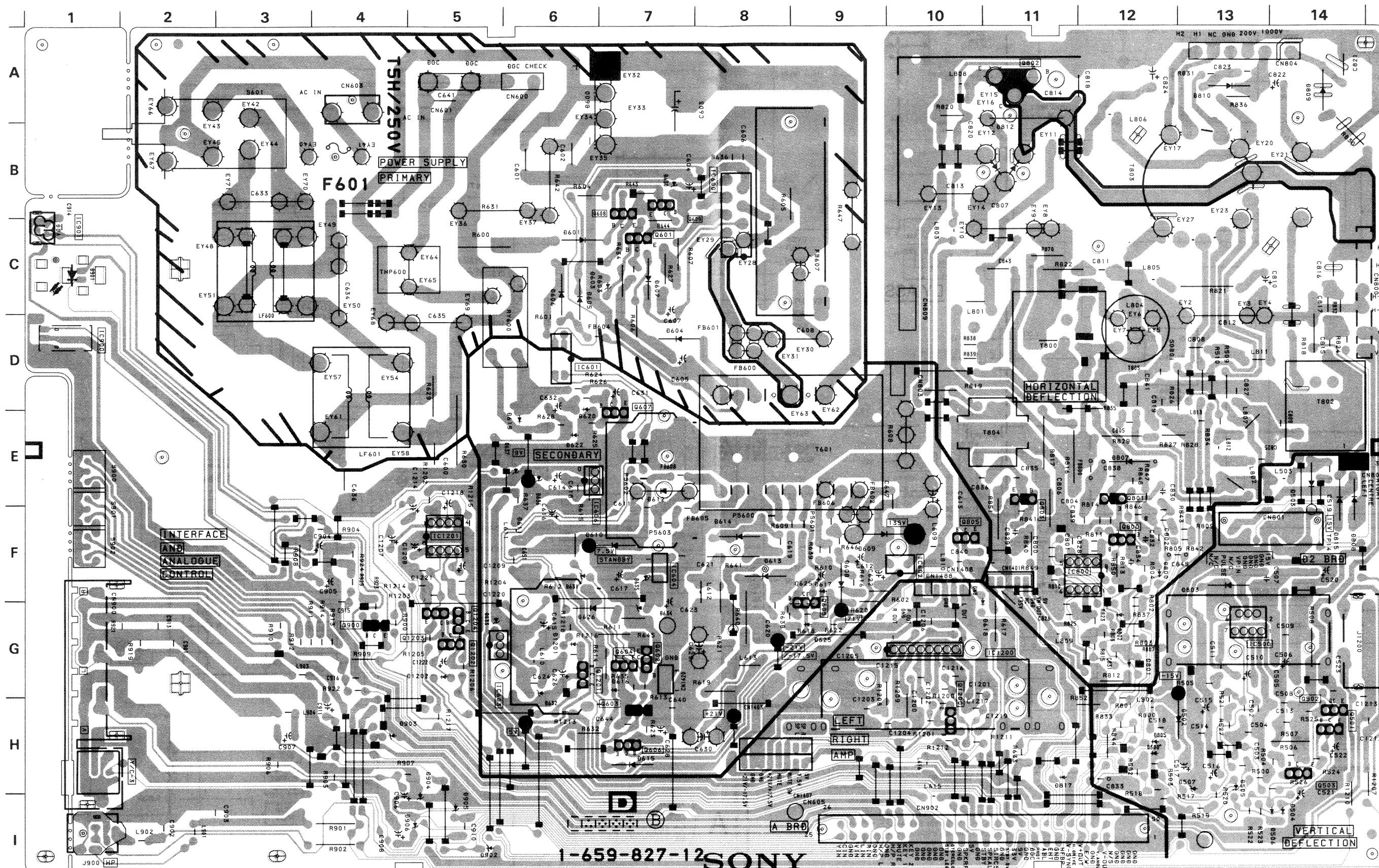
Reference information

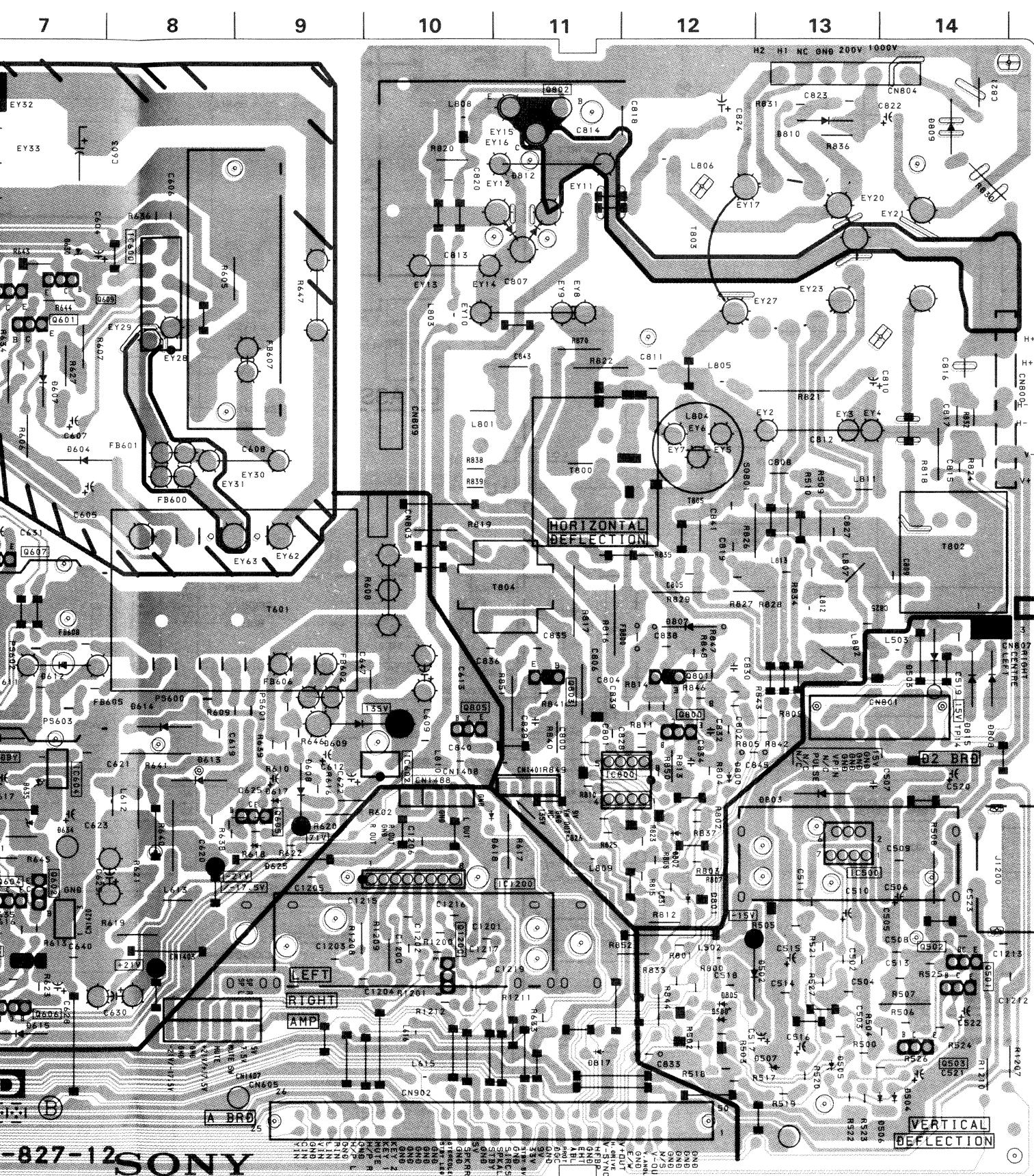
| | | |
|-----------|---------|--------------------------|
| RESISTOR | : RN | METAL FILM |
| | : RC | SOLID |
| | : FPRD | NONFLAMMABLE CARBON |
| | : FUSE | NONFLAMMABLE FUSIBLE |
| | : RS | NONFLAMMABLE METAL OXIDE |
| | : RB | NONFLAMMABLE CEMENT |
| | : RW | NONFLAMMABLE WIREWOUND |
| | : X | ADJUSTABLE RESISTOR |
| COIL | : LF-8L | MICRO INDUCTOR |
| CAPACITOR | : TA | TANTALUM |
| | : PS | STYROL |
| | : PP | POLYPROPYLENE |
| | : PT | MYLAR |
| | : MPS | METALIZED POLYESTER |
| | : MPP | METALIZED POLYPROPYLENE |
| | : ALB | BIPOLAR |
| | : ALT | HIGH TEMPERATURE |
| | : ALR | HIGH RIPPLE |

- Readings are taken with a colour-bar signal input.
- Readings are taken with $10\text{M}\Omega$ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

— HV OUT, PIN OUT, POWER SUPPLY, CONTROL SW, AUDIO IN
— Y-CHROMA IN, HEADPHONE IN, SIRCS RECEIVE, INDICAITON

D Board





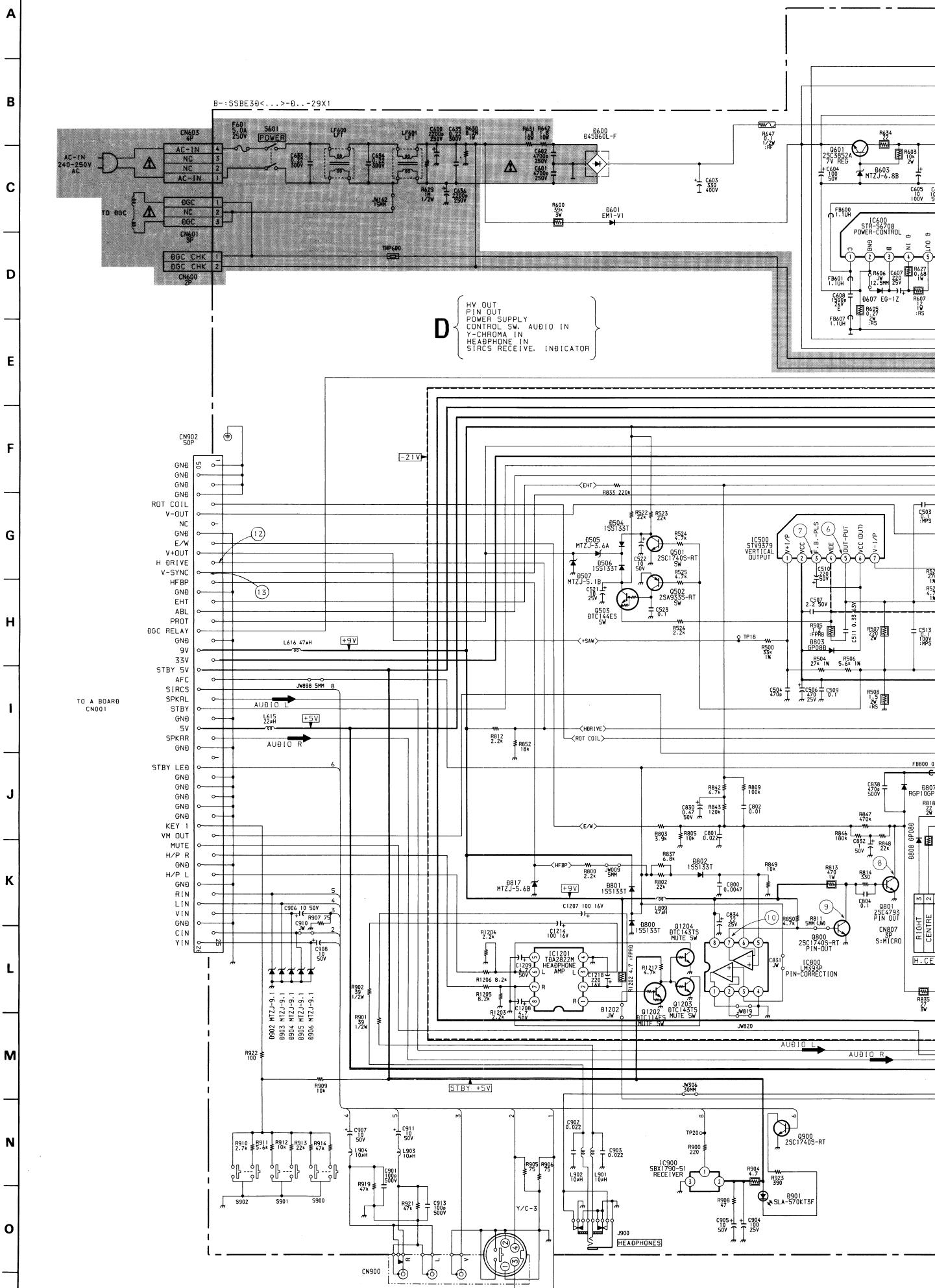
NOTE:

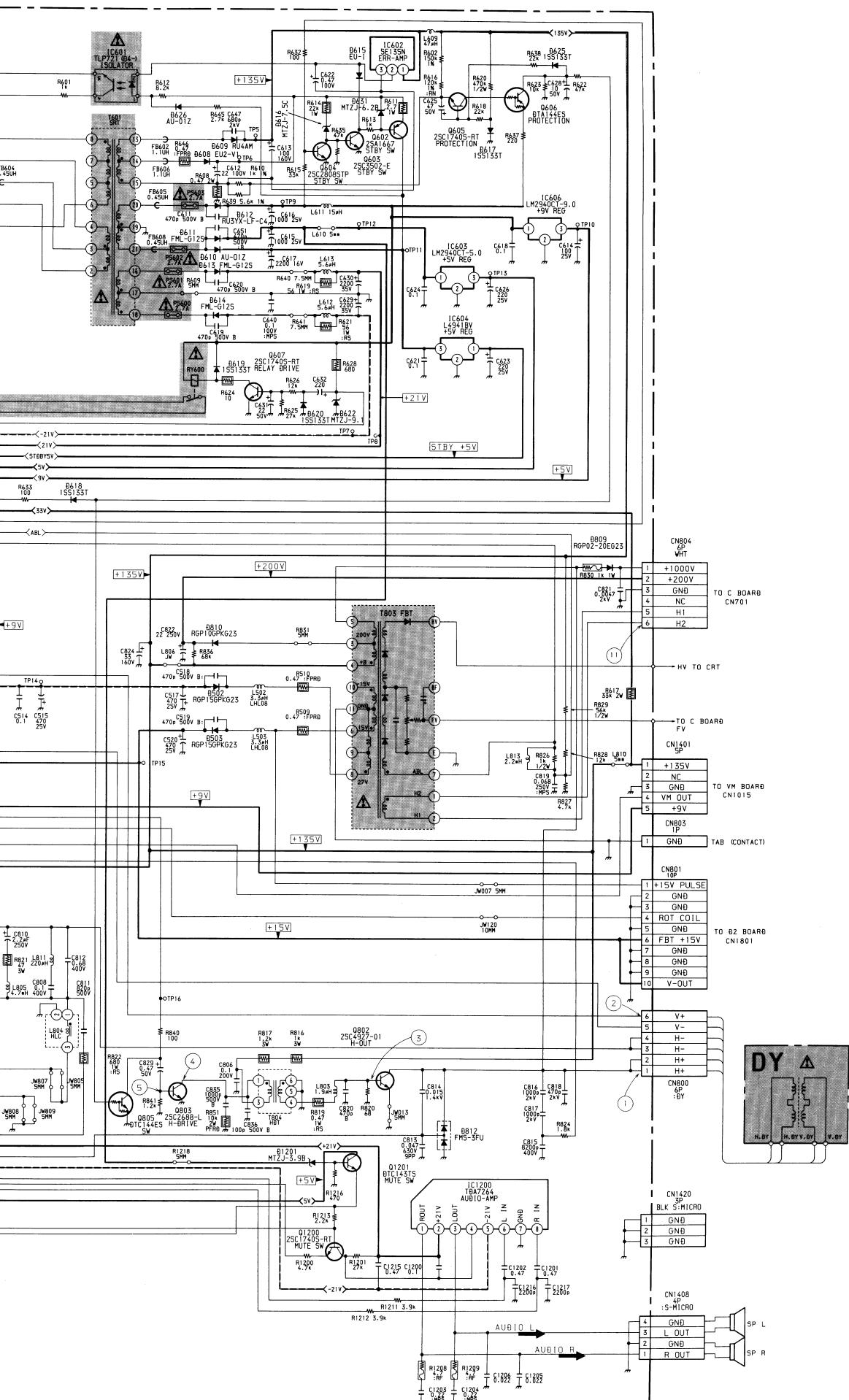
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

D BOARD

| IC | DIODE |
|------------|-----------|
| IC500 | G-13 |
| IC600 | B-8 |
| IC601 | D-6 |
| IC602 | F-10 |
| IC603 | G-5 |
| IC604 | F-7 |
| IC606 | E-6 |
| IC800 | F-12 |
| IC900 | D-1 |
| IC1200 | G-10 |
| IC1201 | F-5 |
| | D600 A-7 |
| | D601 C-6 |
| | D603 C-7 |
| | D604 D-7 |
| | D605 C-6 |
| | D606 C-6 |
| | D607 C-7 |
| | D608 F-9 |
| | D609 F-9 |
| | D610 F-7 |
| | D611 F-6 |
| | D612 E-7 |
| | D613 F-8 |
| | D614 F-8 |
| | D615 H-7 |
| | D616 G-7 |
| | D617 F-9 |
| | D618 F-11 |
| | D619 E-6 |
| | D620 E-6 |
| | D622 E-6 |
| | D625 G-9 |
| | D626 G-6 |
| | D631 F-6 |
| | D800 F-12 |
| | D801 E-12 |
| | D802 A-11 |
| | D803 G-12 |
| | D805 F-10 |
| | D807 E-12 |
| | D808 E-14 |
| | D809 A-14 |
| | D810 A-13 |
| | D812 B-11 |
| | D815 E-14 |
| | D817 H-11 |
| | D901 C-1 |
| | D902 I-5 |
| | D903 H-4 |
| | D904 H-5 |
| | D905 I-5 |
| | D906 I-5 |
| | D1201 G-6 |
| TRANSISTOR | |
| Q501 | H-14 |
| Q502 | H-14 |
| Q503 | H-14 |
| Q601 | C-7 |
| Q602 | G-7 |
| Q603 | H-7 |
| Q604 | G-7 |
| Q605 | F-9 |
| Q606 | H-7 |
| Q607 | D-7 |
| Q800 | F-12 |
| Q801 | E-12 |
| Q802 | A-11 |
| Q803 | E-11 |
| Q805 | F-10 |
| Q900 | G-4 |
| Q1200 | H-10 |
| Q1201 | G-6 |
| Q1202 | G-5 |
| Q1203 | G-5 |
| Q1204 | G-5 |
| DIODE | |
| D500 | H-12 |
| D502 | H-13 |
| D503 | I-14 |
| D504 | H-11 |
| D505 | H-13 |
| D506 | I-14 |
| D507 | H-13 |
| | D901 C-1 |
| | D902 I-5 |
| | D903 H-4 |
| | D904 H-5 |
| | D905 I-5 |
| | D906 I-5 |
| | D1201 G-6 |

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11





**D BOARD
TRANSISTOR VOLTAGE TABLE**

| Transistor Voltage Table | | | |
|--------------------------|-----------|----------------|--------------|
| Ref No | B Base | C Collector | E Emitter |
| Q501 | -0.1 | 0.2 | - |
| Q502 | 0.1 | -5.8 | - |
| Q503 | -5.8 | -12.0 | -12.0 |
| Q602 | 72.0 | 7.5 | 72.7 |
| Q603 | 0 | 72.0 | - |
| Q604 | 0.7 | - | - |
| Q605 | 0.5 | - | 0.3 |
| Q606 | - | - | 12.0 |
| Q607 | - | 12.0 | - |
| Q800 | 0.2 | 3.1 | - |
| Q801 | 0.3 | 17.0 | - |
| Q802 | -0.2 | 143.3 | - |
| Q803 | -0.6 | 99.8 | - |
| Q805 | - | 3.6 | - |
| Q900 | - | 5.4 | - |
| Q1200 | 2.9 | 21.5 | 4.6 |
| Q1201 | 3.4 | 5.0 | 3.0 |
| Q1202 | 2.8 | - | - |

D BOARD IC VOLTAGE TABLE

| IC Voltage Table | | |
|------------------|--------|-------------|
| Ref No | Pin No | Voltage (V) |
| IC500 | 1 | 1.5 |
| | 2 | 15.0 |
| | 3 | -12.3 |
| | 4 | -14.0 |
| | 5 | 0.1 |
| | 6 | 15.2 |
| | 7 | 1.4 |
| IC600 | 1 | 170.0 |
| | 2 | -62.4 |
| | 3 | -62.6 |
| | 4 | -62.2 |
| | 5 | -62.0 |
| | 6 | -62.6 |
| | 7 | -62.4 |
| | 8 | -62.0 |
| | 9 | -58.0 |
| IC601 | 1 | 64.3 |
| | 2 | 63.0 |
| | 3 | -62.5 |
| | 4 | -58.6 |
| IC602 | 1 | 135.0 |
| | 2 | 63.2 |
| | 3 | -0.1 |
| IC800 | 3 | 0.9 |
| | 5 | 1.5 |
| | 6 | 2.0 |
| | 7 | 0.2 |
| | 8 | 9.0 |
| IC1200 | 2 | 21.7 |
| | 4 | 21.5 |
| | 5 | -21.7 |
| IC1201 | 1 | 4.0 |
| | 2 | 9.0 |
| | 3 | 4.0 |
| | 5 | 0.5 |
| | 8 | 0.5 |

1 2 3 4 5 6 7 8 9 10 11

A

B

C

D

E

F

G

H

I

J

K

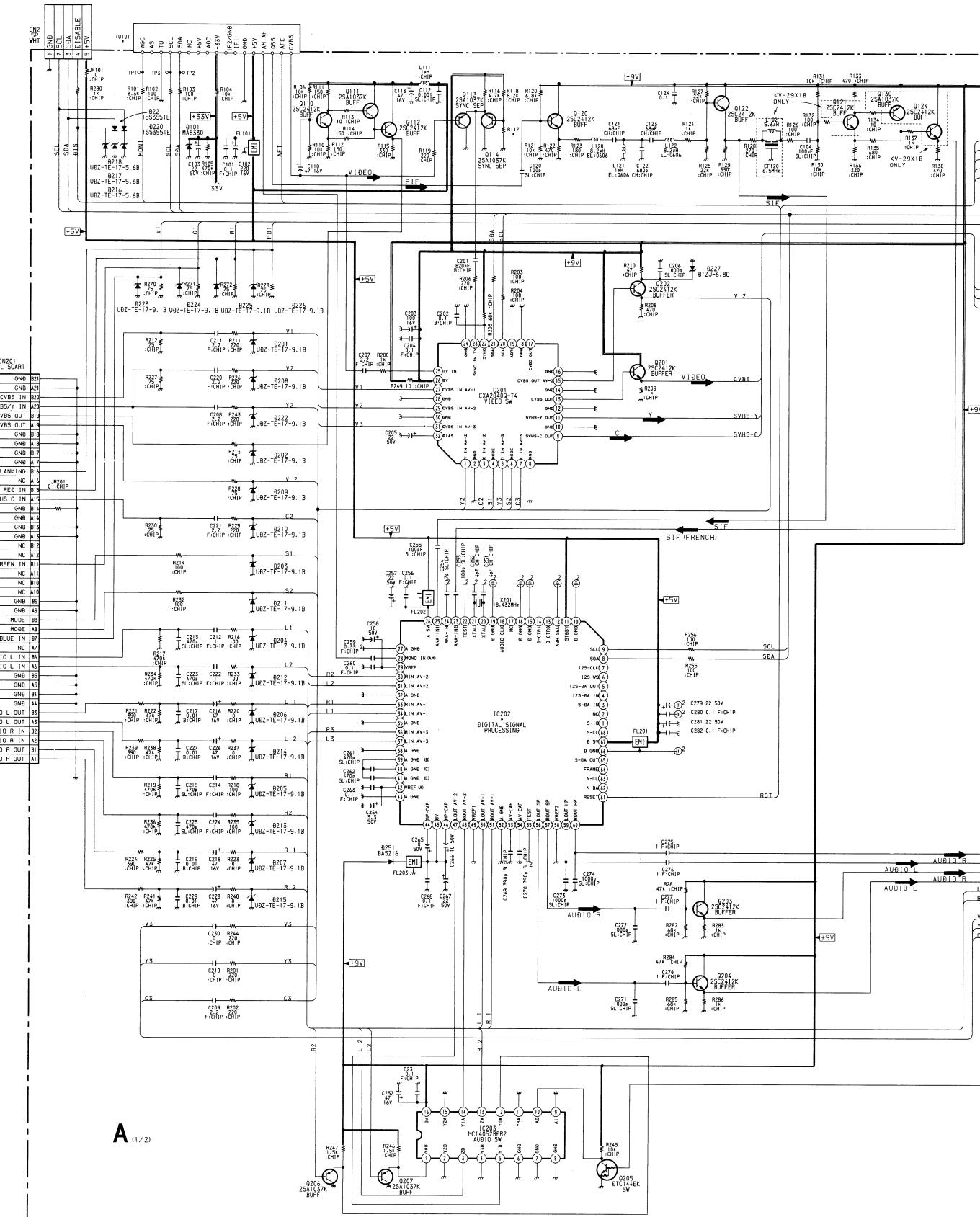
L

M

N

O

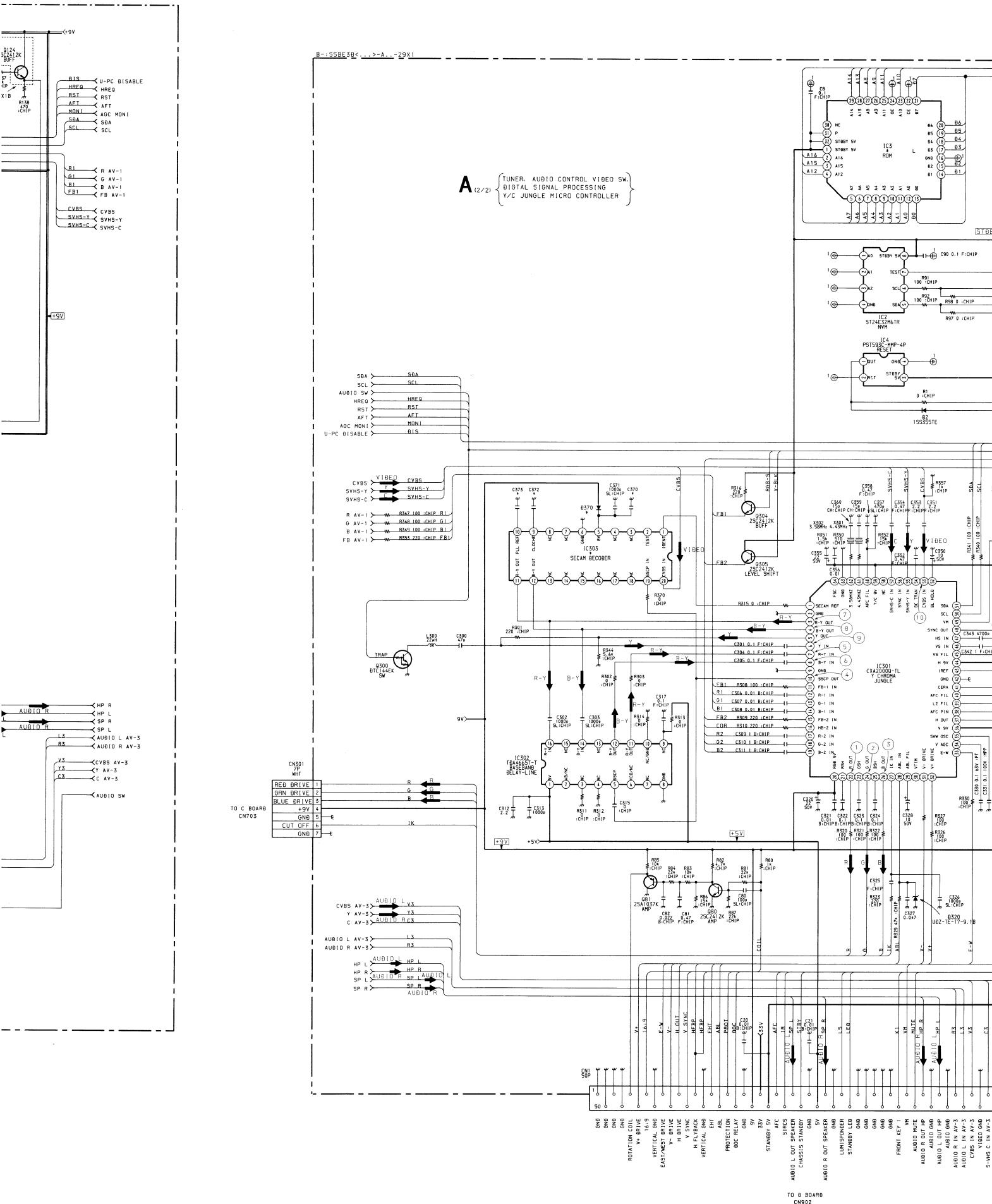
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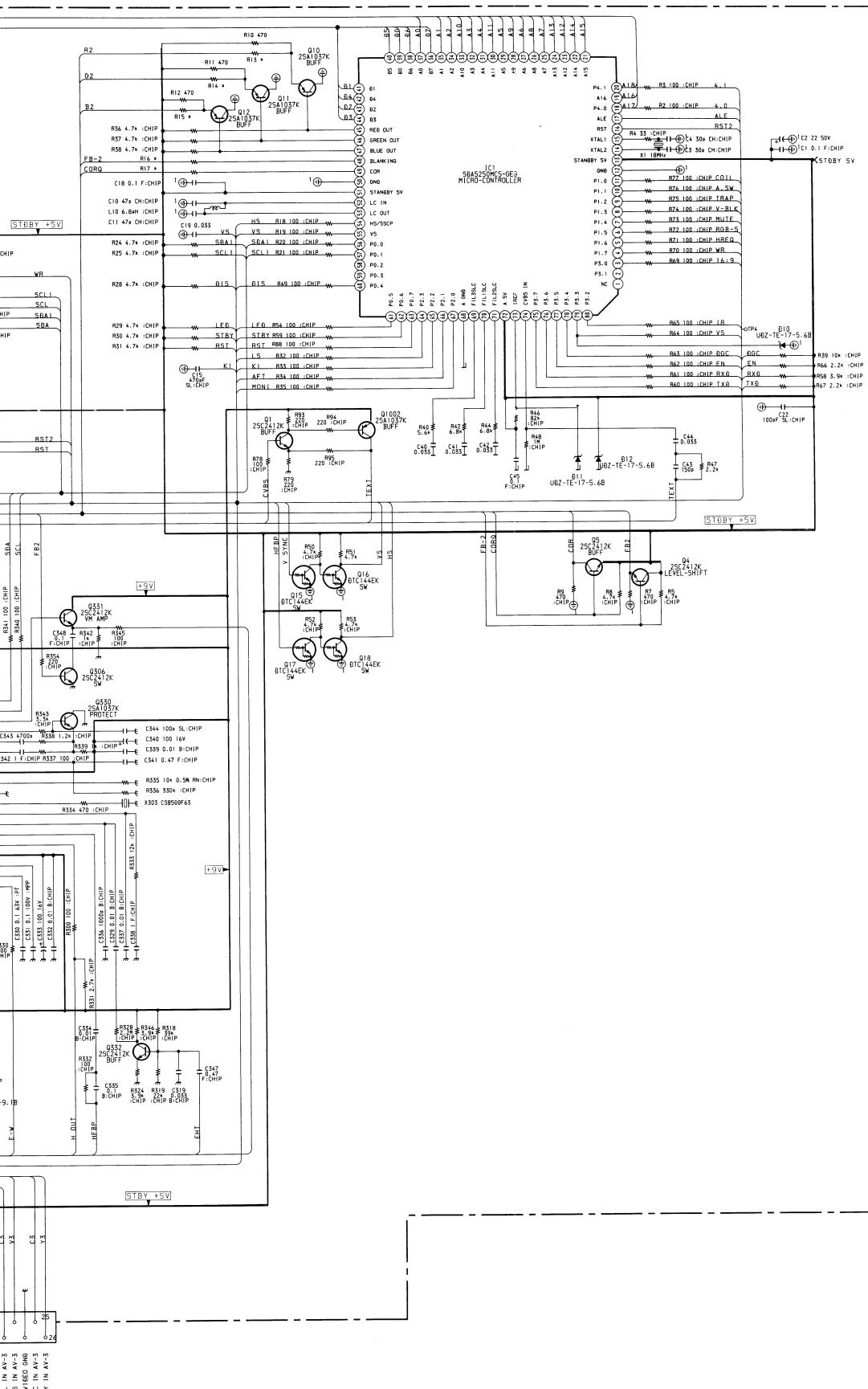


B-:SSBE50<...>-A--29X1

A BOARD * MARK

| Model Ref. No. | 29X1A | 29X1B | 29X1D | 29X1E | 29X1K | 29X1L | 29X1R | 29X1U |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| C370 | — | 2.2UF | 2.2UF | 2.2UF | 2.2UF | — | 2.2UF | — |
| C372 | — | 0.1UF | 0.1UF | 0.1UF | 0.1UF | — | 0.1UF | — |
| C373 | — | 0.22UF | 0.22UF | 0.22UF | 0.22UF | — | 0.22UF | — |
| D370 | — | BAS216 | BAS216 | BAS216 | BAS216 | — | BAS216 | — |
| IC3 | TMS27PC010A-15FMBE101 | TMS27PC010A-15FMBE101 | TMS27PC010A-15FMBE101 | TMS27PC010A-15FMBE101 | TMS27PC010A-15FMBE101 | TMS27PC010A-15FMBW101 | TMS27PC010A-15FMBW101 | TMS27PC010A-15FMBW101 |
| IC202 | MSP3400C-PS | MSP3410-15 | MSP3400C-PS | MSP3410-15 | MSP3400C-PS | MSP3410-15 | MSP3400C-PS | MSP3410-15 |
| IC303 | — | TDA8395T | TDA8395T | TDA8395T | TDA8395T | — | TDA8395T | — |
| R13 | 150 | — | 150 | 150 | 150 | 150 | 150 | 150 |
| R14 | 150 | — | 150 | 150 | 150 | 150 | 150 | 150 |
| R15 | 150 | — | 150 | 150 | 150 | 150 | 150 | 150 |
| R16 | 100 | — | 100 | 100 | 100 | 100 | 100 | 100 |
| R17 | 100 | — | 100 | 100 | 100 | 100 | 100 | 100 |
| R117 | 1.8K | 2.0K |
| TU101 | TUVIF (AEP) | TUVIF (FR) | TUVIF (AEP) | TUVIF (UK) |





A (1/2) BOARD IC VOLTAGE TABLE

| IC Voltage Table | | |
|------------------|--------|-------------|
| Ref No | Pin No | Voltage (V) |
| IC201 | 13 | 4.4 |
| | 15 | 4.4 |
| | 20 | 3.5 |
| | 21 | 2.7 |
| | 22 | 4.9 |
| | 23 | 4.4 |
| | 24 | 0 |
| | 25 | 4.4 |
| | 26 | 8.8 |
| | 32 | 4.4 |
| | 4 | 2.8 |
| | 6-7 | 0.1 |
| | 8 | 3.0 |
| | 9 | 3.6 |
| | 11 | 4.7 |
| | 13 | 4.7 |
| | 20-21 | 2.4 |
| | 23 | 0.2 |
| | 25 | 1.5 |
| | 26 | 4.8 |
| | 28 | 3.8 |
| | 29 | 2.6 |
| | 39-42 | 3.8 |
| | 44 | 7.1 |
| | 45 | 8.0 |
| | 46 | 7.1 |
| | 47-48 | 3.8 |
| | 53-54 | 3.8 |

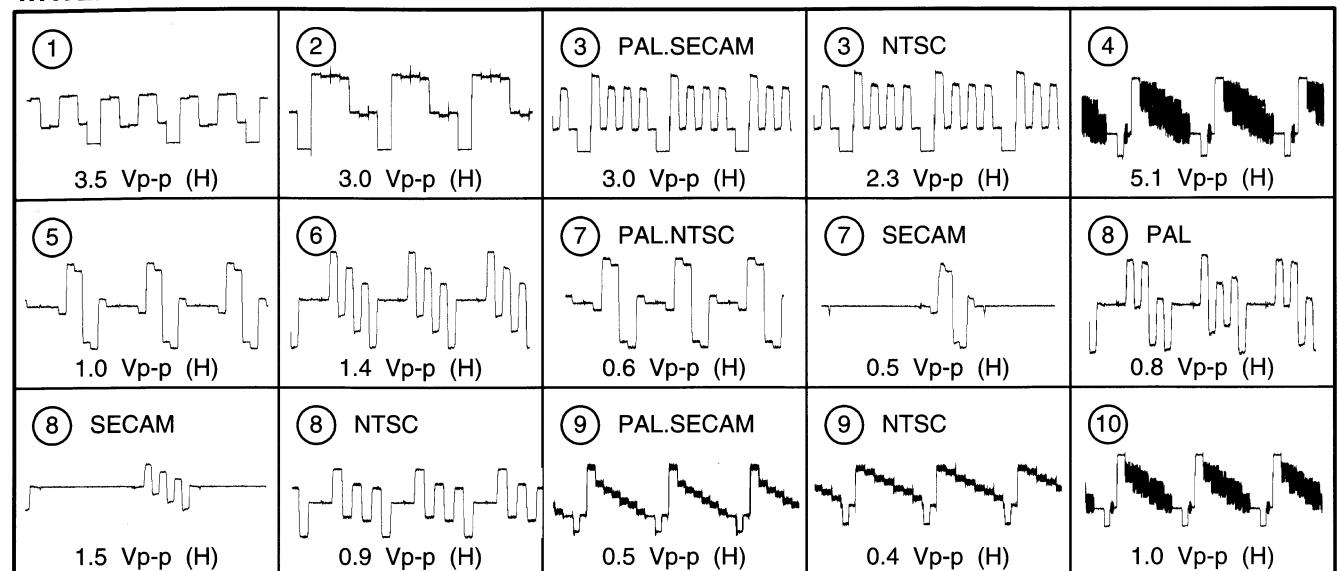
A (2/2) BOARD TRANSISTOR VOLTAGE TABLE

| Transistor Voltage Table | | | | |
|--------------------------|-----|-----|-----|---------|
| Ref No | B | C | E | Emitter |
| Q1 | 3.7 | 4.8 | 3.1 | - |
| Q4 | 0.1 | 4.8 | - | - |
| Q5 | 0.7 | 4.8 | 4.0 | - |
| Q15 | - | 4.3 | - | - |
| Q16 | 4.3 | 0.2 | - | - |
| Q17 | 0.4 | 3.5 | - | - |
| Q18 | 3.5 | 0.7 | - | - |
| Q80 | 2.6 | 2.2 | - | - |
| Q81 | 2.4 | - | 3.0 | - |
| Q304 | - | 4.8 | - | - |
| Q305 | - | 4.8 | - | - |
| Q330 | 4.5 | - | 5.1 | - |
| Q331 | 6.3 | 8.8 | 5.7 | - |
| Q332 | 3.1 | 8.8 | 2.5 | - |
| Q1001 | 4.4 | - | - | - |

A (1/2) BOARD TRANSISTOR VOLTAGE TABLE

| Transistor Voltage Table | | | | |
|--------------------------|------|-----|-----|---------|
| Ref No | B | C | E | Emitter |
| Q110 | 1.8 | 8.2 | 1.2 | - |
| Q112 | 1.5 | 8.8 | 0.8 | - |
| Q113 | 1.8 | - | - | - |
| Q114 | 5.4 | 6.0 | - | - |
| Q120 | 84.3 | 8.8 | 3.7 | - |
| Q121 | 1.5 | 5.4 | 0.9 | - |
| Q122 | 5.4 | 8.8 | 4.7 | - |
| Q124 | - | 8.8 | - | - |
| Q201 | 4.4 | 8.8 | 3.7 | - |
| Q202 | 4.4 | 8.8 | 3.7 | - |

WAVEFORMS A BOARD



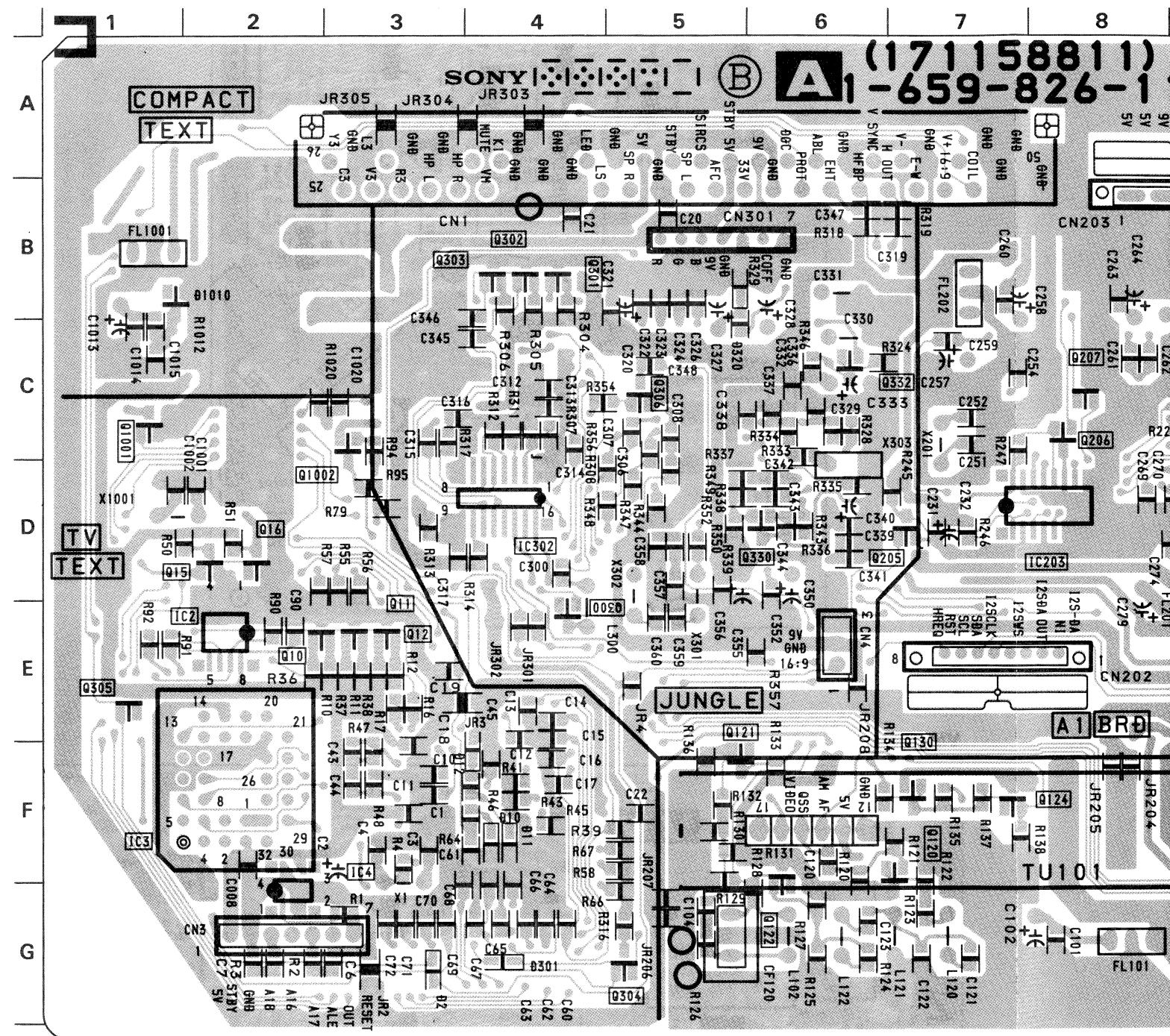
A (2/2) BOARD IC VOLTAGE TABLE

| IC Voltage Table | | | | | | | | |
|------------------|--------|-------------|--------|--------|-------------|--------|--------|-------------|
| Ref No | Pin No | Voltage (V) | Ref No | Pin No | Voltage (V) | Ref No | Pin No | Voltage (V) |
| IC1 | 2 | 3.6 | | 5 | 3.6 | IC301 | 61 | 5.0 |
| | 3-4 | 4.8 | | 6 | 5.0 | | 62 | 7.6 |
| | 5 | 0.5 | | 7-8 | 5.4 | IC302 | 1 | 4.8 |
| | 7 | 4.8 | | 10 | 0.6 | | 5 | 0.7 |
| | 9 | 4.8 | | 12-14 | 5.4 | | 9 | 4.8 |
| | 11 | 2.4 | | 16 | 4.0 | IC303 | 11-12 | 3.0 |
| | 13 | 4.8 | | 17-19 | 5.4 | | 14 | 1.3 |
| | 14-15 | 2.3 | | 20 | 8.8 | | 16 | 1.3 |
| | 16-17 | 4.8 | | 22-23 | 2.2 | | 5 | 8.0 |
| | 48 | 4.0 | | 24 | 2.0 | | 3.2 | 10 |
| | 51 | 4.8 | | 25 | 2.4 | | 11 | 5.6 |
| | 52-53 | 2.4 | | 26 | 2.0 | | 0 | 19 |
| | 54 | 0.7 | | 27 | 4.0 | | 20 | 3.7 |
| | 55 | 0.2 | | 28 | 6.6 | | 4 | 0.2 |
| | 56-57 | 4.8 | | 29 | 8.8 | | 5 | 0.7 |
| | 58 | 2.8 | | 31-33 | 3.0 | | 4 | 0.2 |
| | 59 | 3.5 | | 34 | 4.0 | | 5 | 0.7 |
| | 60 | 2.4 | | 35 | 4.6 | | 6 | 1.7 |
| | 62 | 0.7 | | 36 | 8.8 | | 7 | 1.8 |
| | 63 | 4.4 | | 37 | 3.1 | | 10 | 0.4 |
| | 65 | 4.8 | | 38 | 3.4 | | 11-12 | 4.8 |
| | 66 | 2.1 | | 39 | 5.3 | | 16 | 4.8 |
| | 67 | 2.0 | | 40 | 4.2 | | 17 | 0 |
| | 69-71 | 2.3 | | 41 | 2.3 | | 21 | 4.8 |
| | 72 | 4.8 | | 43 | 1.7 | | 23 | 3.0 |
| | 73 | 1.5 | | 44 | 8.8 | | 25 | 4.8 |
| | 74 | 1.2 | | 45 | 2.5 | | 56 | 0 |
| | 75-77 | 4.8 | | 46 | 3.9 | | 61 | 1.3 |
| | 79 | 0.2 | | 47 | 3.0 | | 62-63 | 1.4 |
| | 80 | 4.8 | | 48 | 4.4 | | 64 | 0 |
| | IC2 | 5-8 | 4.8 | 49 | 6.3 | | 66 | 4.6 |
| | IC3 | 1 | 4.8 | 50-51 | 0.1 | | 67 | 4.7 |
| | 31-32 | 4.8 | | 53 | 3.9 | | 68 | 4.0 |
| | IC4 | 1 | 4.8 | 54 | 5.0 | | | |
| | | 3 | 4.8 | 55-56 | 4.2 | | | |
| | IC301 | 1 | 1.5 | 58-59 | 8.8 | | | |
| | | 3-4 | 5.6 | 60 | 5.3 | | | |

A

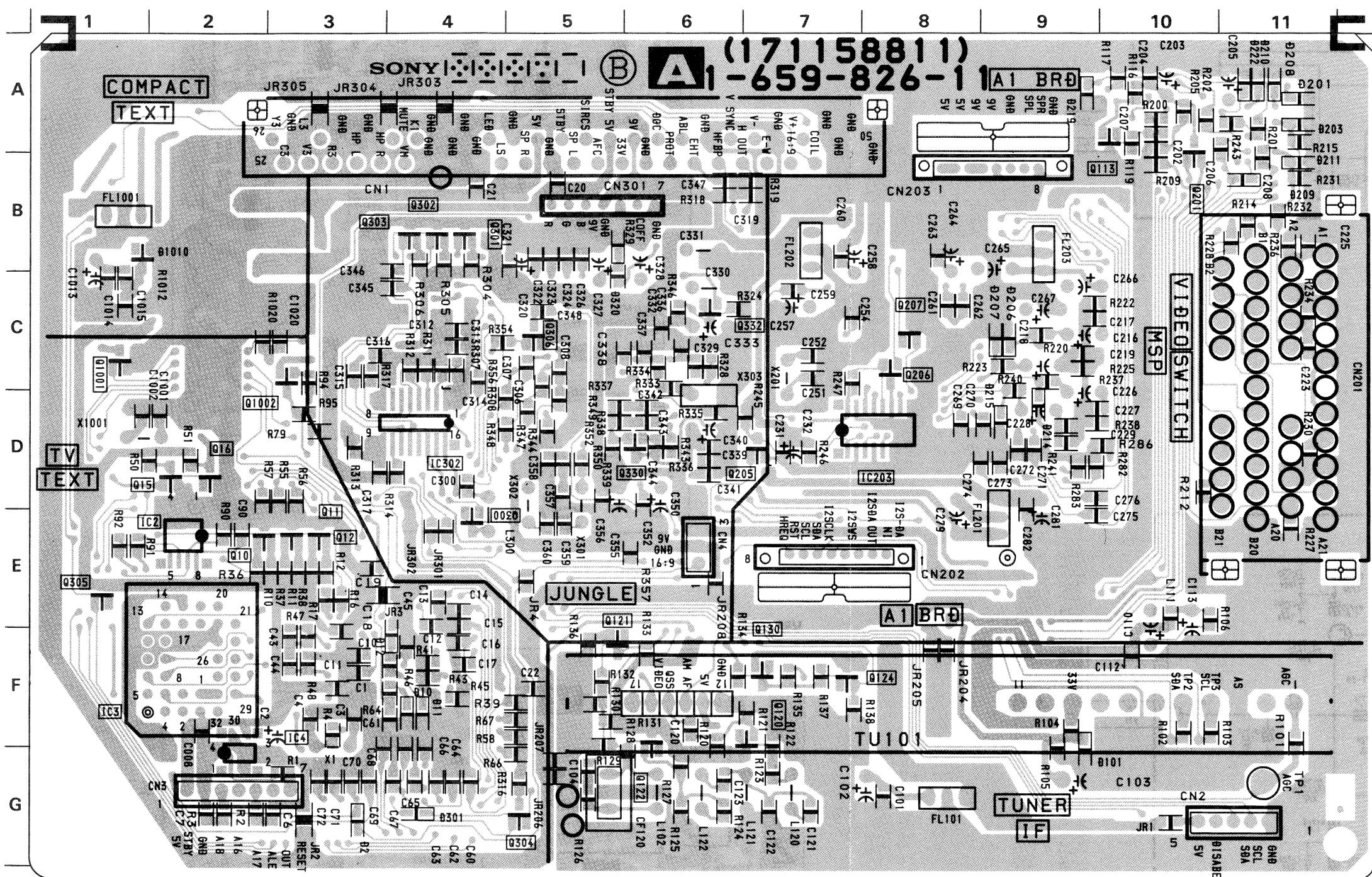
TUNER, AUDIO CONTROL VIDEO SW, DIGITAL SIGNAL PROCESSING
Y/C JUNGLE MICRO CONTROLLER

A Board <Conductor Side>

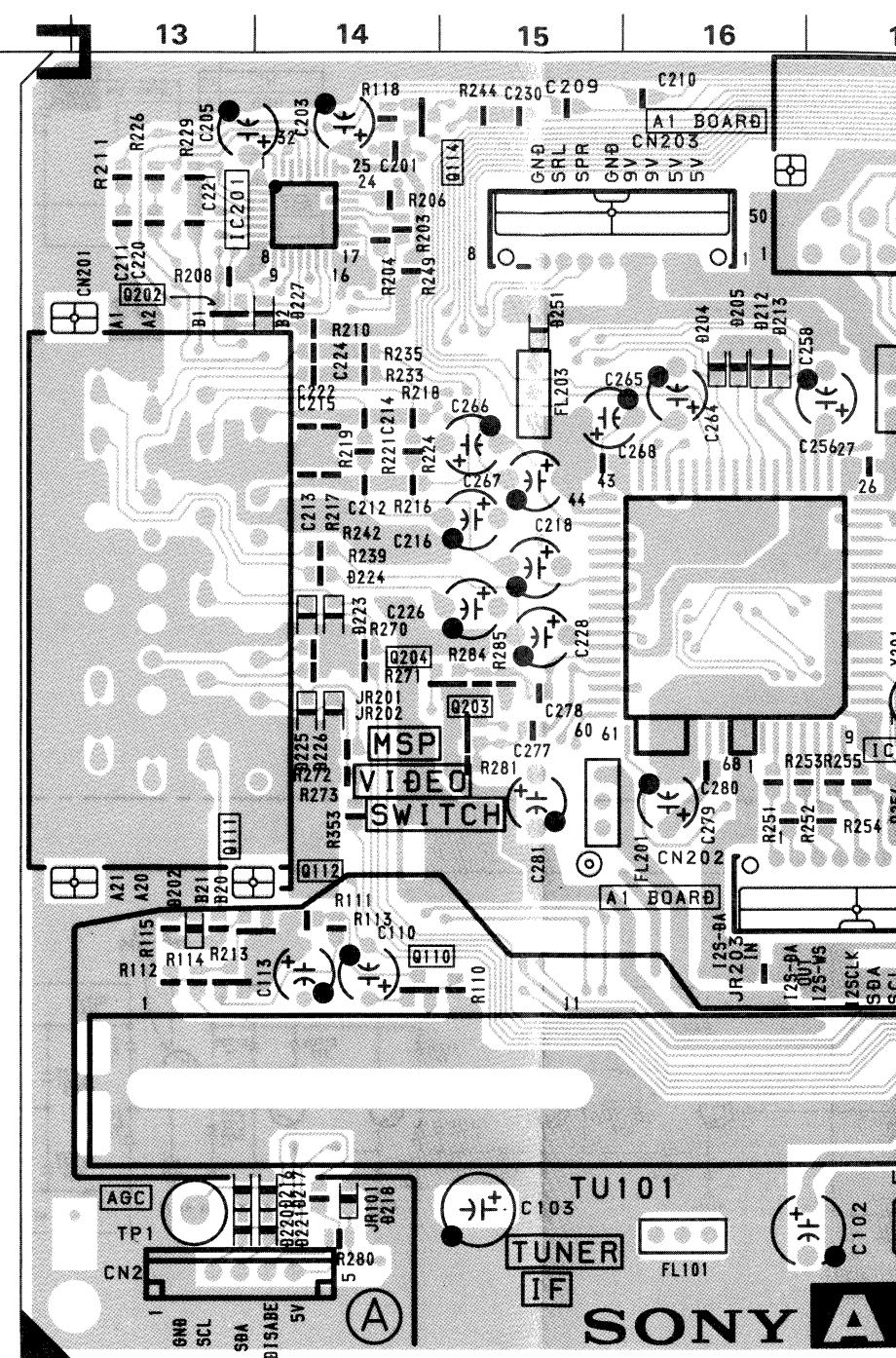


A TUNER, AUDIO CONTROL VIDEO SW, DIGITAL SIGNAL PROCESSING
Y/C JUNGLE MICRO CONTROLLER

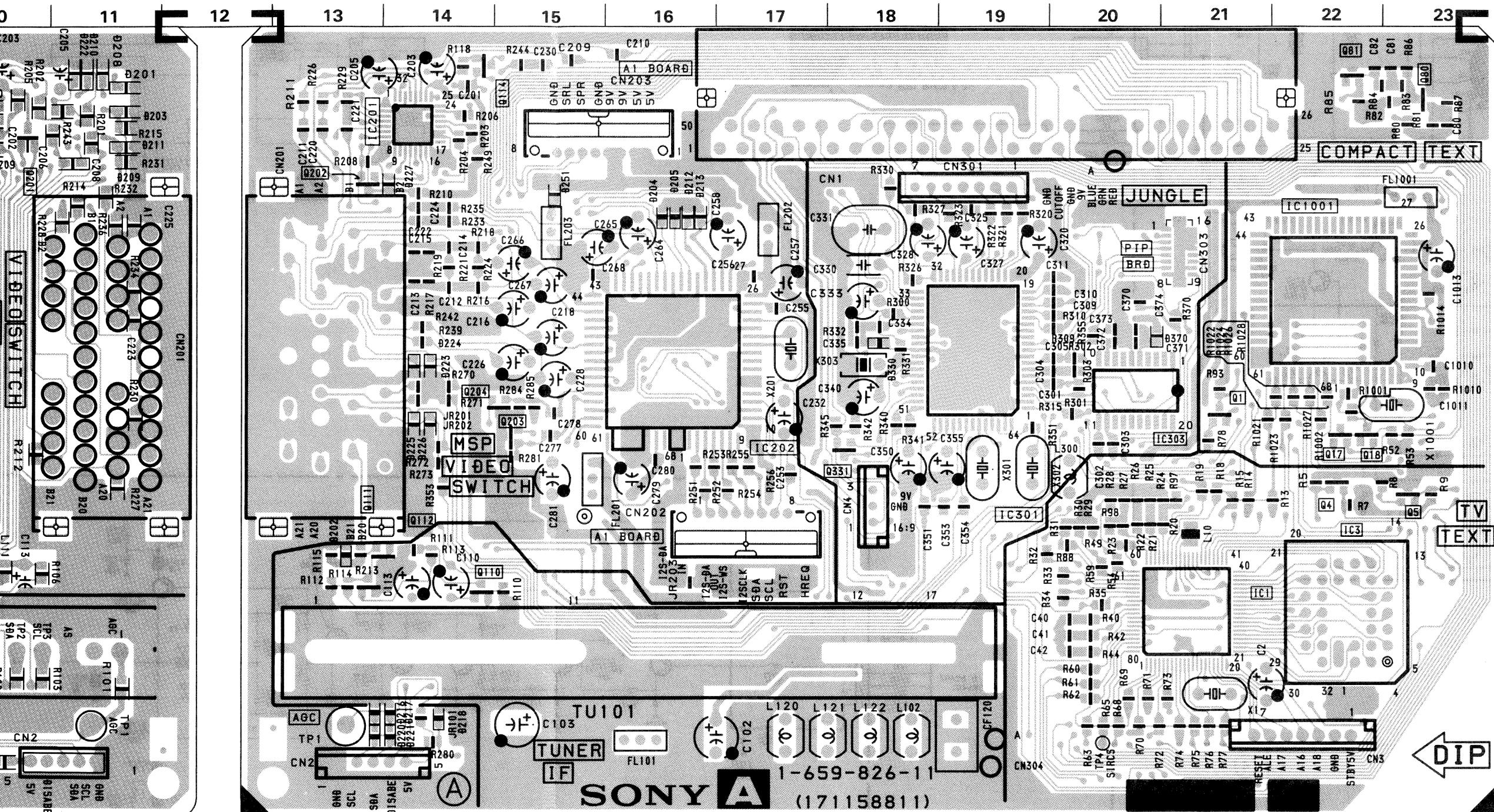
A Board <Conductor Side>



A Board <Component Side>

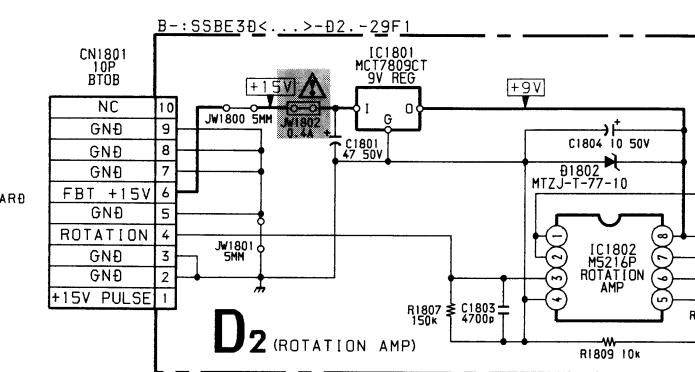
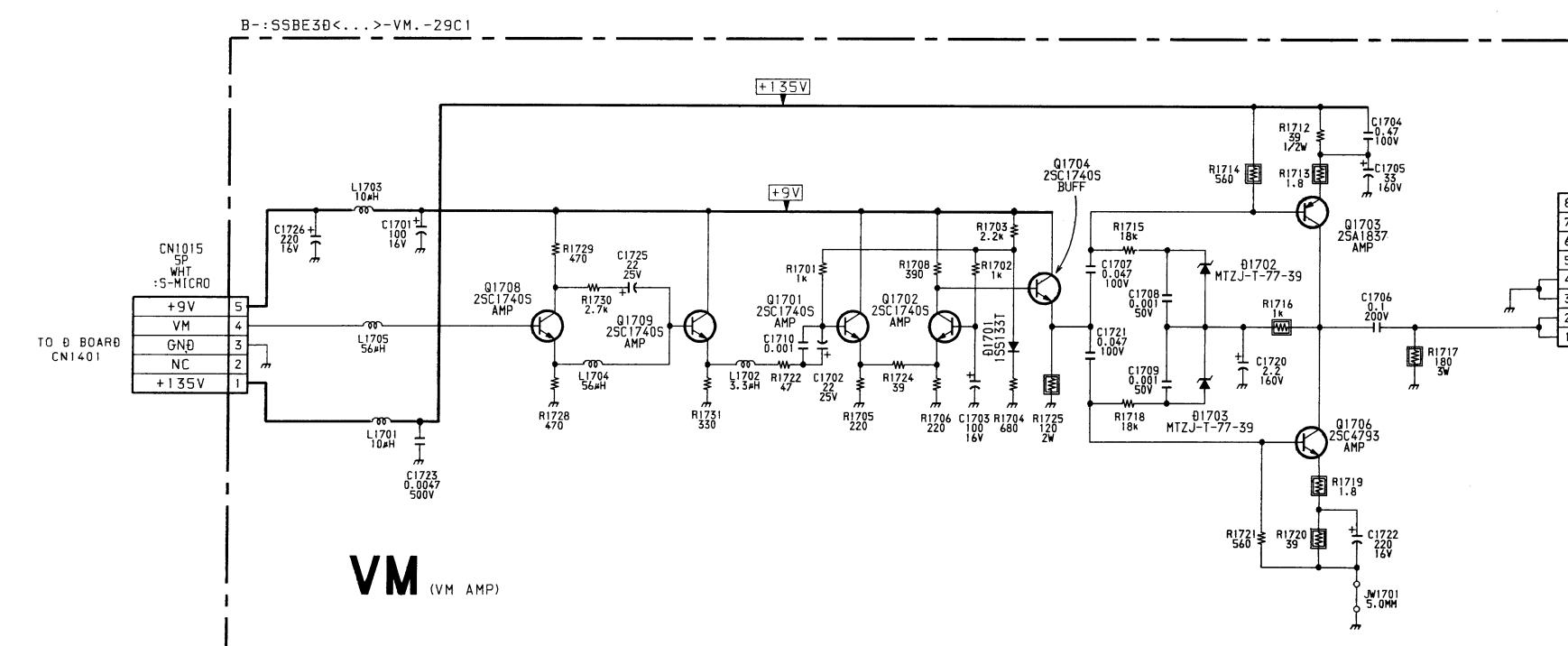
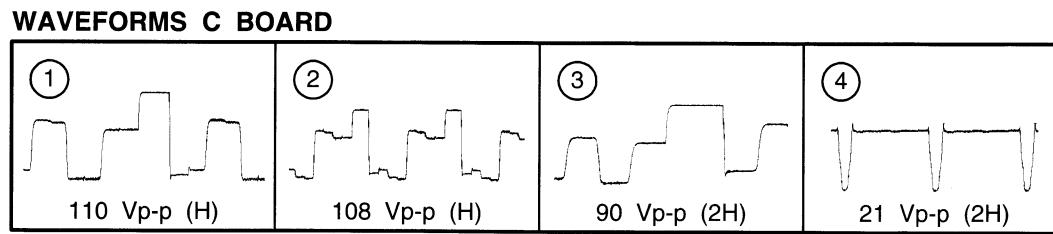
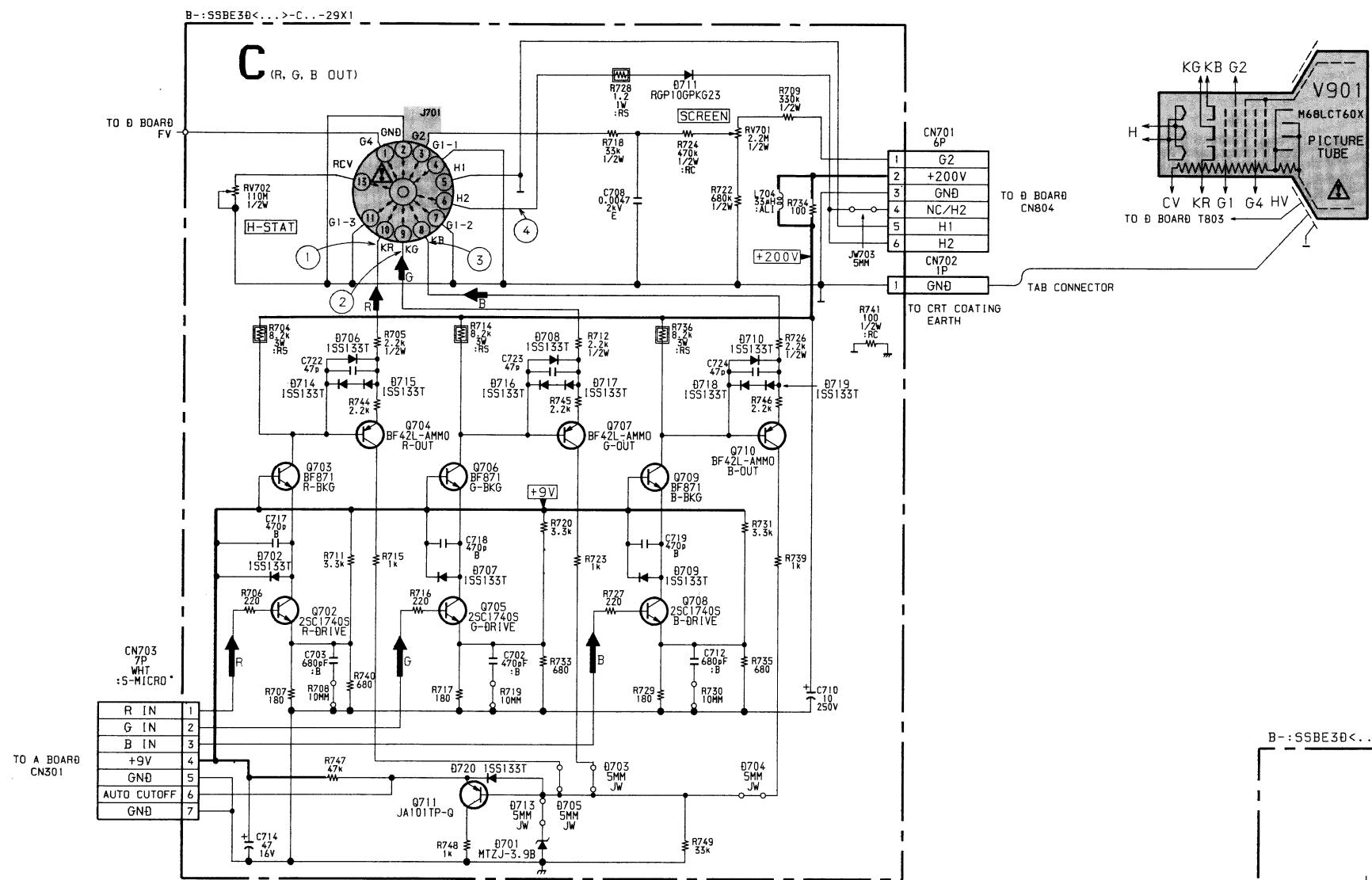


A Board <Component Side>



A BOARD

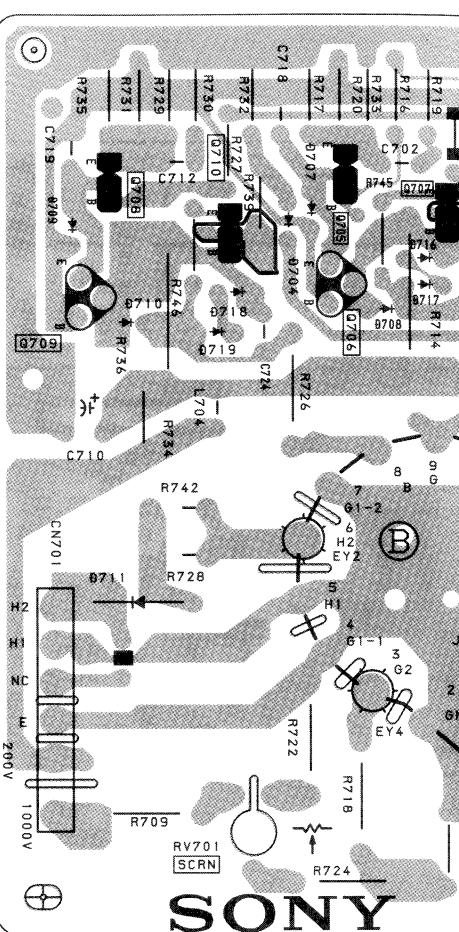
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|------------|------|-------|------|
| IC1 | F-21 | Q306 | C-5 |
| IC2 | E-2 | Q330 | D-6 |
| IC3 | F-2 | Q331 | D-18 |
| IC4 | G-2 | Q332 | C-6 |
| IC201 | A-14 | Q1002 | C-3 |
| IC202 | C-16 | DIODE | |
| IC203 | D-8 | D2 | G-3 |
| IC301 | C-19 | D10 | F-10 |
| IC302 | D-4 | D11 | F-10 |
| IC303 | D-21 | D12 | F-4 |
| TRANSISTOR | | D101 | F-9 |
| Q1 | D-21 | D201 | A-11 |
| Q4 | E-22 | D202 | E-13 |
| Q5 | E-23 | D203 | A-11 |
| Q10 | E-2 | D204 | B-16 |
| Q11 | E-3 | D205 | B-16 |
| Q15 | D-2 | D206 | C-9 |
| Q16 | D-2 | D207 | C-9 |
| Q17 | D-22 | D208 | A-11 |
| Q18 | D-23 | D209 | B-11 |
| Q80 | A-23 | D210 | A-11 |
| Q81 | A-22 | D211 | B-11 |
| Q110 | F-14 | D212 | B-16 |
| Q111 | E-14 | D213 | B-16 |
| Q112 | E-14 | D214 | D-9 |
| Q113 | A-10 | D215 | D-9 |
| Q114 | A-14 | D216 | G-14 |
| Q120 | F-7 | D217 | G-14 |
| Q121 | F-5 | D218 | G-14 |
| Q122 | F-6 | D220 | G-14 |
| Q124 | F-7 | D221 | D-14 |
| Q130 | F-7 | D222 | D-14 |
| Q201 | B-10 | D223 | D-14 |
| Q202 | B-13 | D224 | D-14 |
| Q203 | D-15 | D225 | D-14 |
| Q204 | D-15 | D226 | D-14 |
| Q205 | D-7 | D227 | B14 |
| Q206 | C-8 | D251 | B-15 |
| Q207 | C-8 | D320 | C-5 |
| Q300 | E-4 | D370 | C-21 |
| Q304 | G-5 | | |



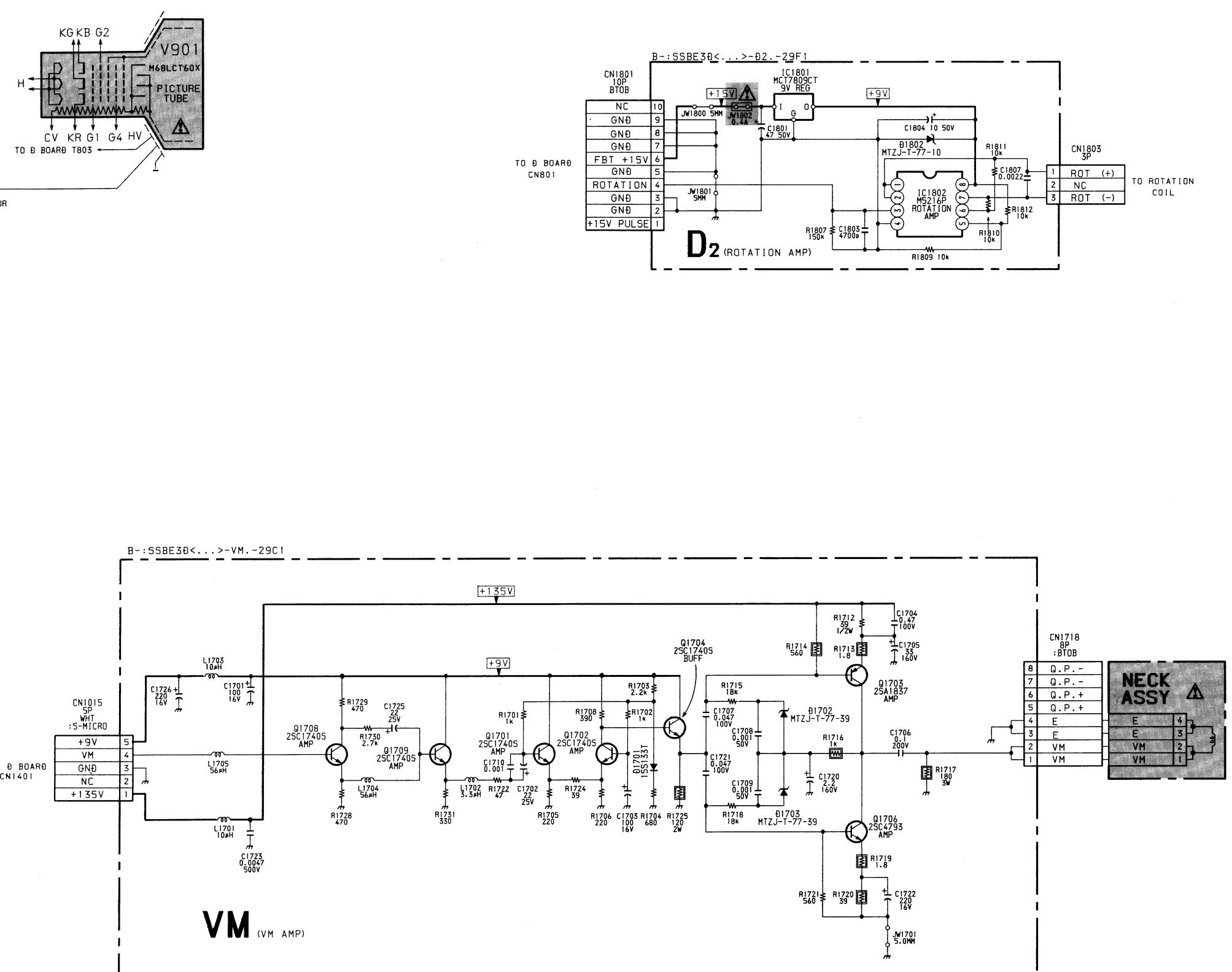
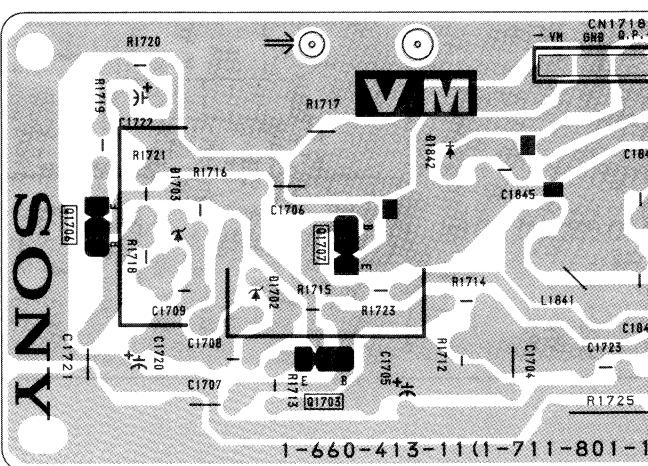
C

VM

C Board



VM Board



C

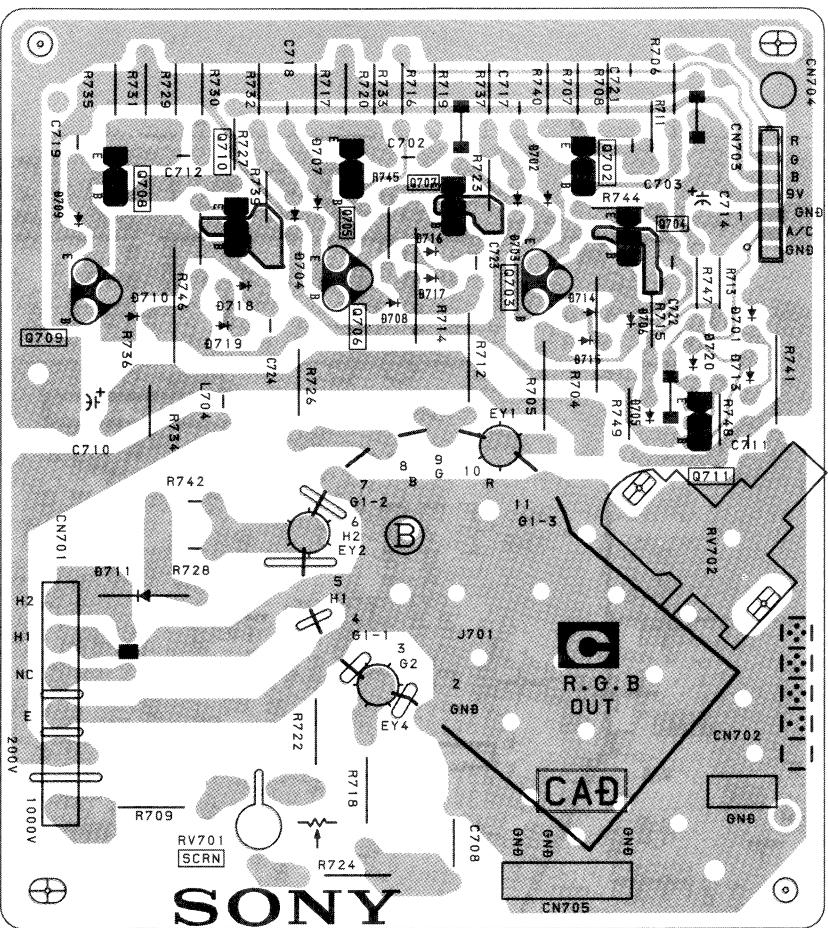
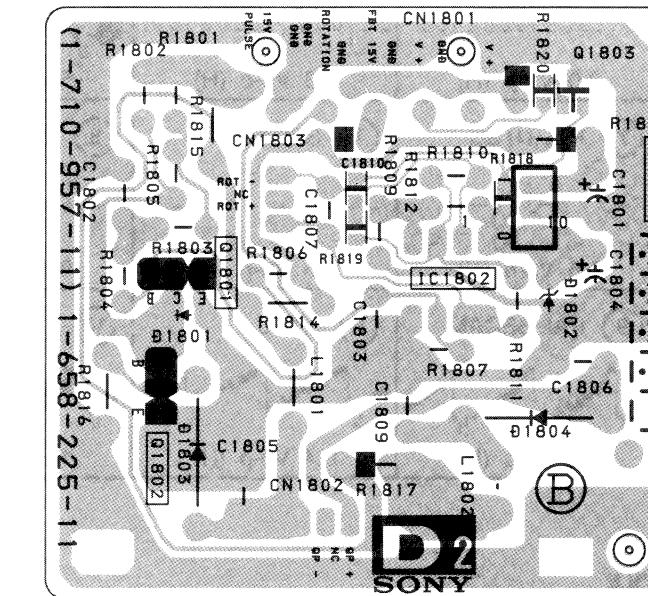
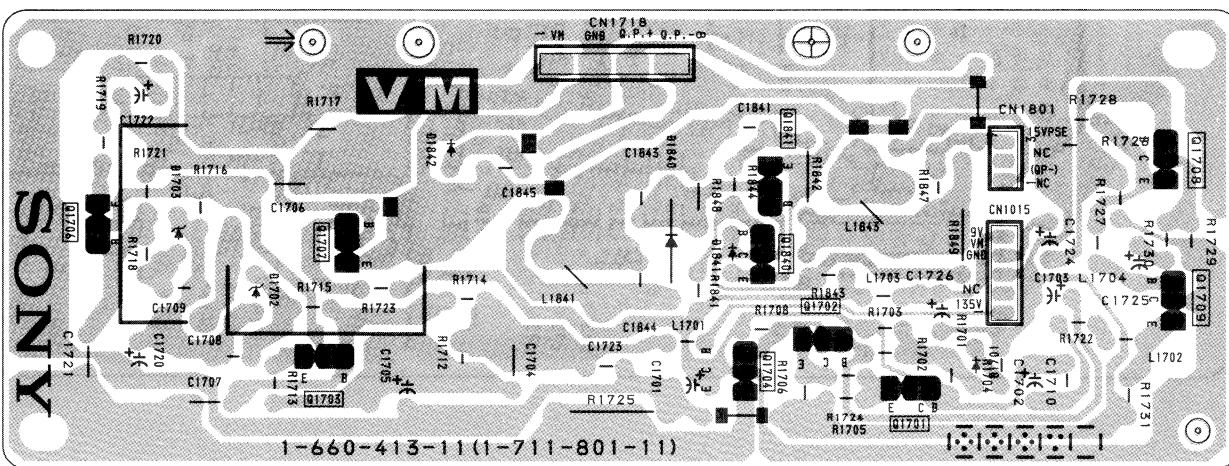
[R, G, B OUT]

VM

[VM AMP]

D2

[ROTATION AMP]

C Board**D2 Board****VM Board****C BOARD
TRANSISTOR VOLTAGE TABLE**

| Transistor Voltage Table | | | |
|--------------------------|-----------|----------------|--------------|
| Ref No | B Base | C Collector | E Emitter |
| Q702 | 2.0 | 11.4 | 1.4 |
| Q703 | 12.0 | 168.3 | 11.4 |
| Q704 | 168.3 | 6.0 | 163.5 |
| Q705 | 1.7 | 11.4 | 1.2 |
| Q706 | 12.0 | 178.8 | 11.4 |
| Q707 | 178.2 | 6.2 | 173.8 |
| Q708 | 2.0 | 11.4 | 1.4 |
| Q709 | 12.0 | 168.3 | 11.4 |
| Q710 | 168.0 | 6.4 | 160.0 |

**VM BOARD
TRANSISTOR VOLTAGE TABLE**

| Transistor Voltage Table | | | |
|--------------------------|-----------|----------------|--------------|
| Ref No | B Base | C Collector | E Emitter |
| Q1701 | 2.5 | 8.8 | 1.8 |
| Q1702 | 2.5 | 5.5 | 1.8 |
| Q1703 | 134.3 | 71.8 | 134.8 |
| Q1704 | 5.5 | 8.8 | 4.8 |
| Q1706 | 1.0 | 71.8 | 0.4 |
| Q1707 | 0.7 | - | - |
| Q1708 | 2.9 | 6.6 | 2.2 |
| Q1709 | 2.2 | 8.8 | 1.5 |
| Q1840 | 0.6 | - | - |

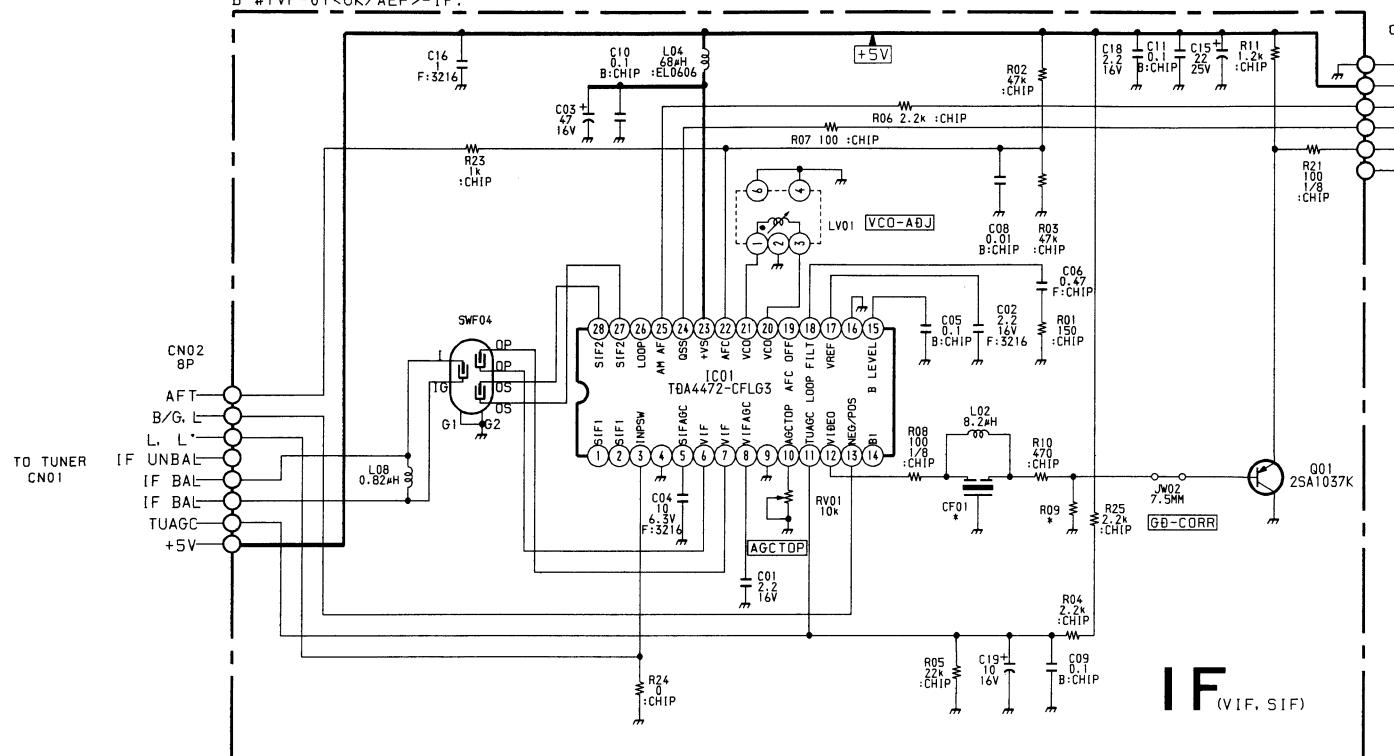
D2 BOARD IC VOLTAGE TABLE

| IC Voltage Table | | |
|------------------|--------|-------------|
| Ref No | Pin No | Voltage (V) |
| IC1802 | 1-2 | 2.8 |
| | 3 | 3.0 |
| | 5-6 | 4.4 |
| | 7 | 6.2 |
| | 8 | 9.0 |

TUVIF (AEP) (KV-29X1A, 29X1D, 29X1E, 29X1K, 29X1L and 29X1R ONLY)

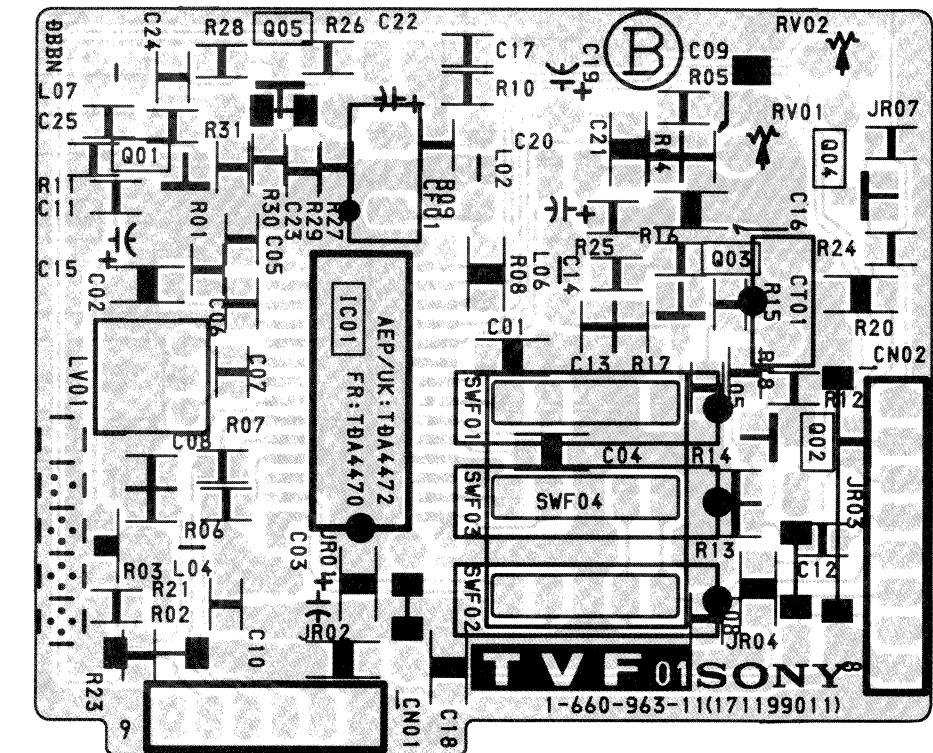
TUVIF (UK) (KV-29X1U ONLY)

B-#TVE-01<UK/AFP>-1E.



IF
[VIF, SIF]

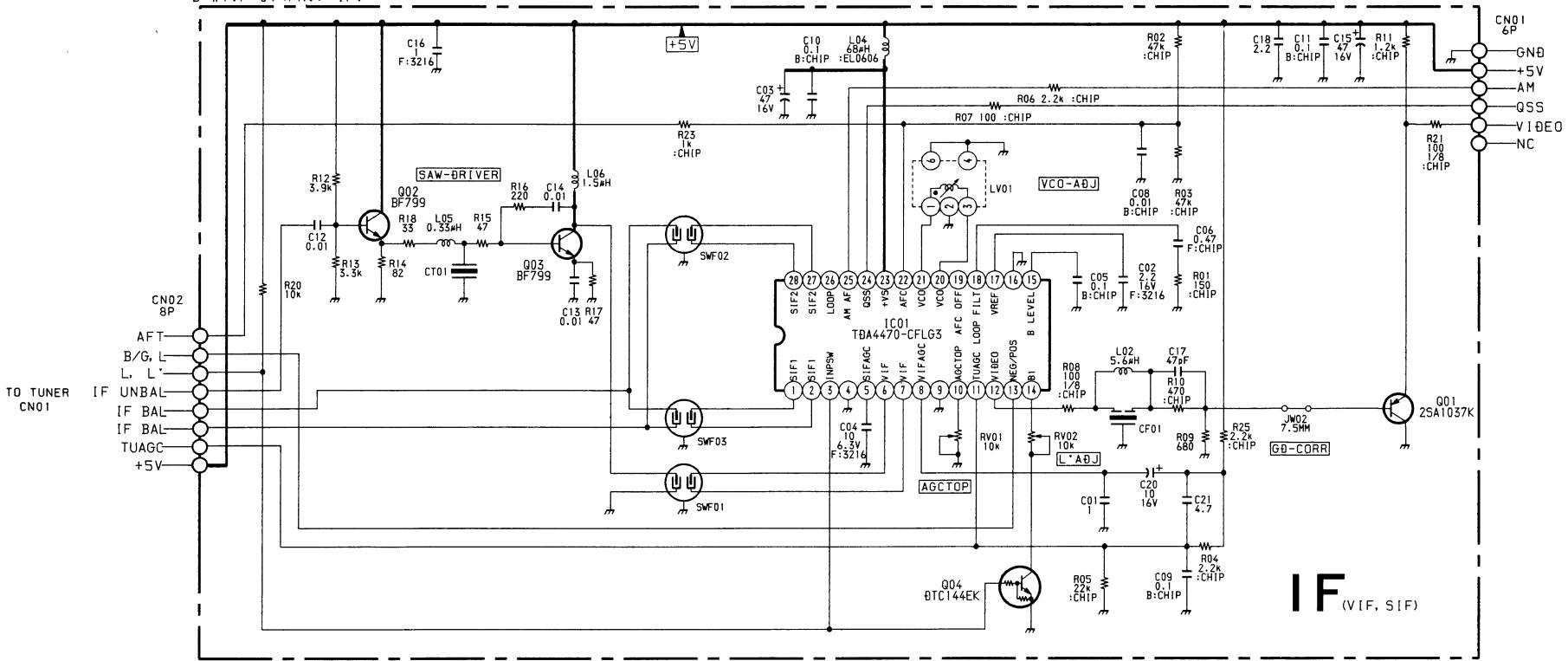
IF Board

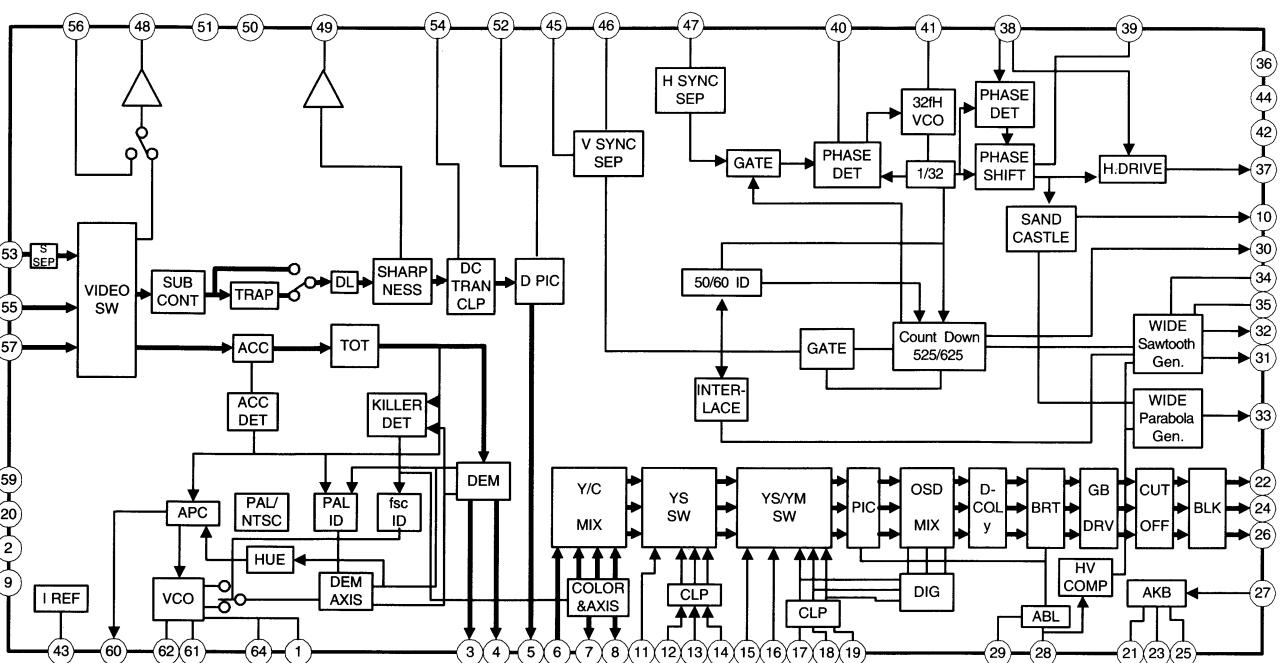
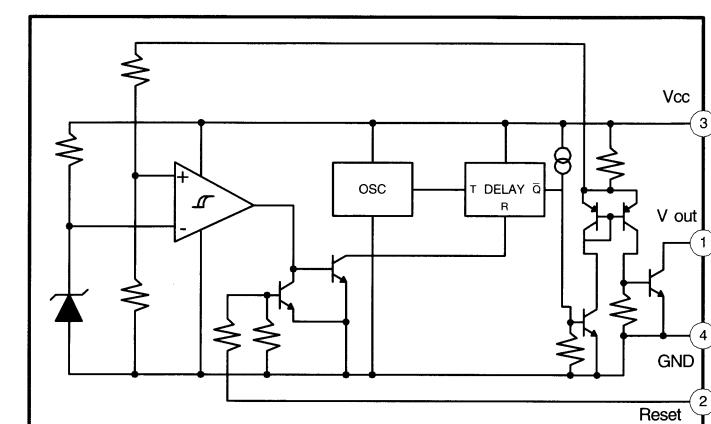
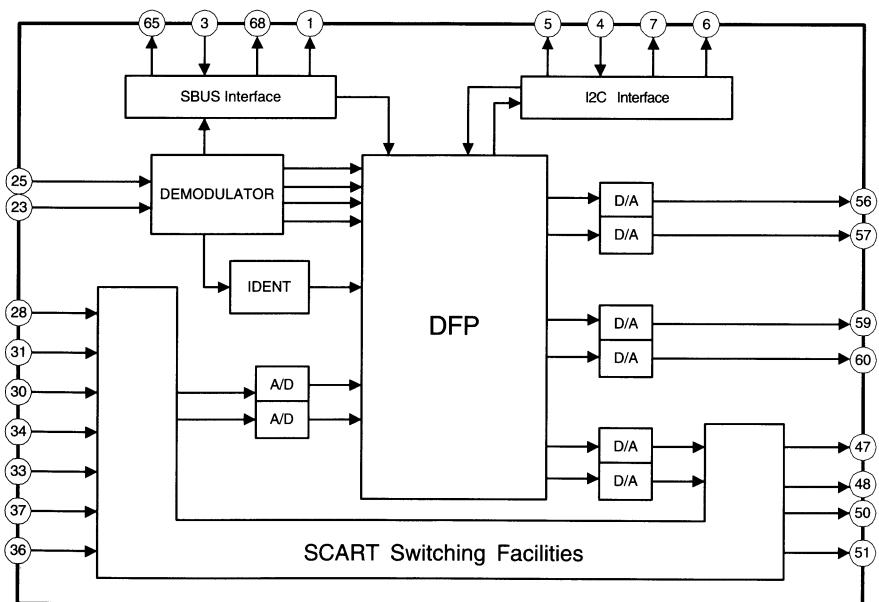
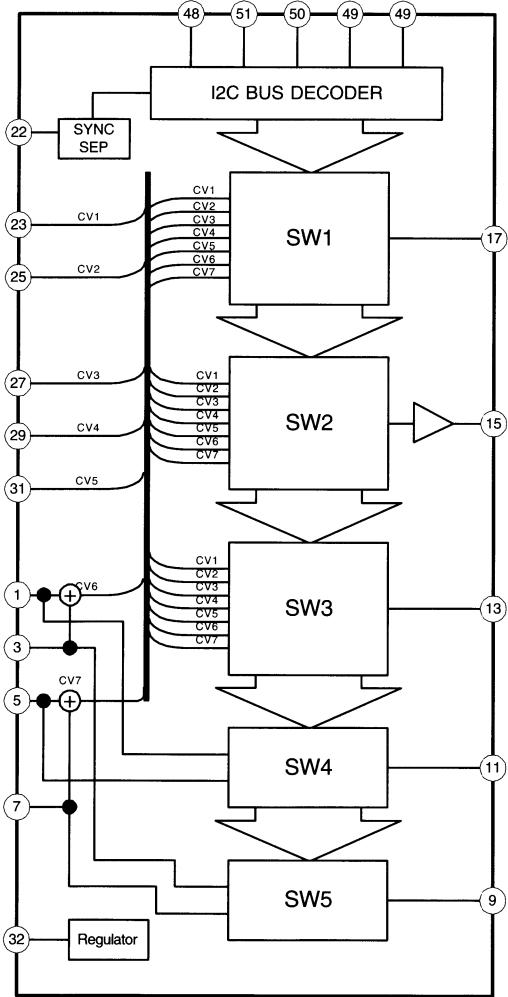
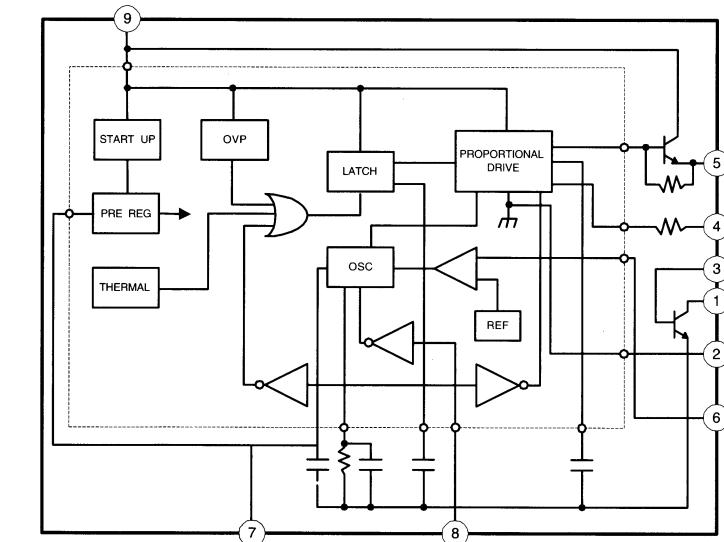
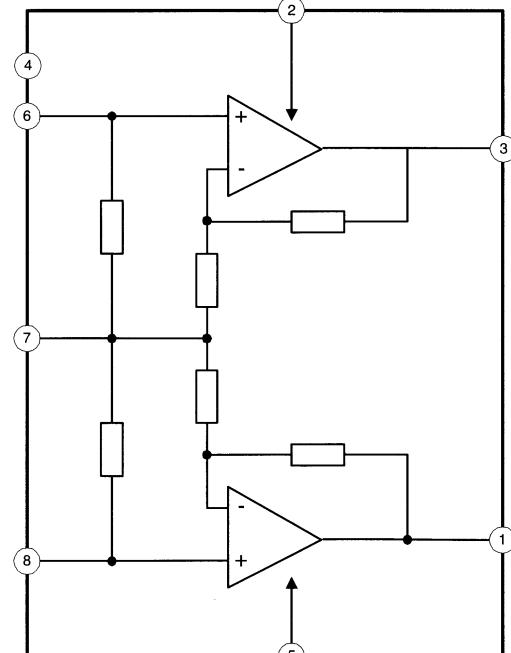


IF Board

TUVIF (FR) (KV-29X1B ONLY)

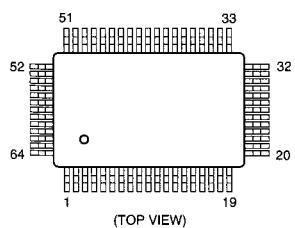
B-#TVF-01 <FR. >- IF.



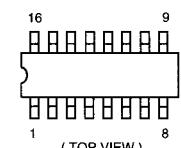
A BOARD IC301 CXA2000Q-TL**A BOARD IC4 PST593C****A BOARD IC202 MSP3410/MSP3400****A BOARD IC201 CXA2040Q****D BOARD IC600 STR-S6708****D BOARD IC1200 TDA7264**

5-4. SEMICONDUCTORS

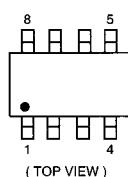
CXA2000Q-TL



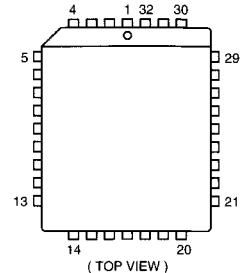
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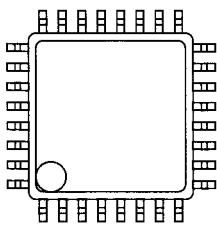
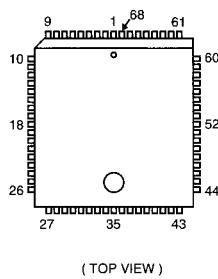
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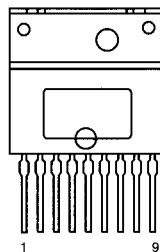
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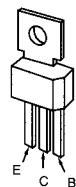
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MSP3410-15

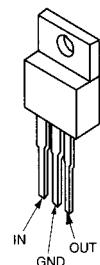
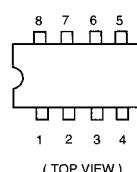
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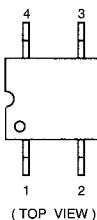
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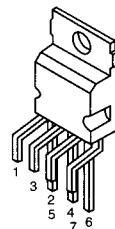
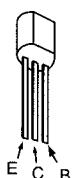
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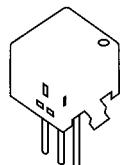
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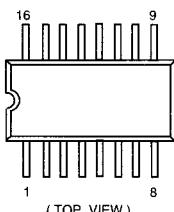
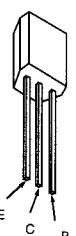
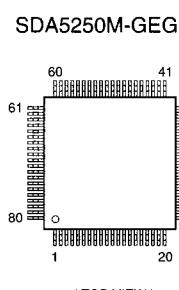
STV9379

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2SA933S
2SA1091-O
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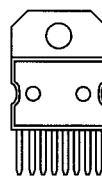
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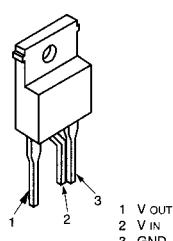
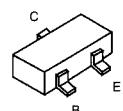
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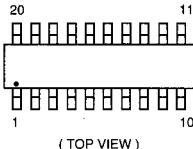
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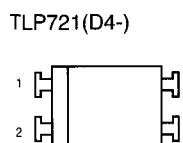


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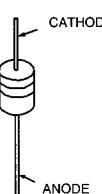
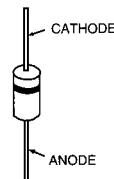
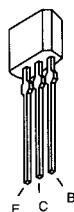
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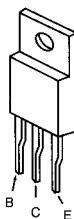


| | | | |
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| AU-01Z-V1 | GP08D | MTZJ-3.6A | RD3.9ESB2 |
| EG-1Z-V1 | RGP02 | MTZJ-3.9B | RD5.1ESB2 |
| EGP20G | RGP10GPKG23 | MTZJ-5.1B | RD5.6ESB2 |
| EL1Z | RGP15GPKG23 | MTZJ-5.6B | RD6.2ESB2 |
| EM1-V1 | RU3YX | MTZJ-6.2B | RD6.8ESB2 |
| EU-1-V1 | RU4AM-T3 | MTZJ-6.8B | RD7.5ESB2 |
| EU2-V1 | RU4DS | MTZJ-7.5C | RD10ESB2 |
| FML-G12S | | MTZJ-9.1 | RD39ES-B2 |
| | | MTZJ-T-77-9.1A | |
| | | MTZJ-10 | 1SS133T-77 |
| | | MTZJ-39 | |

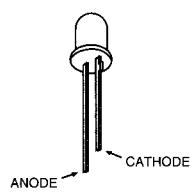
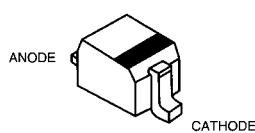
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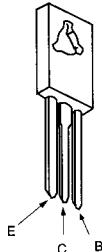
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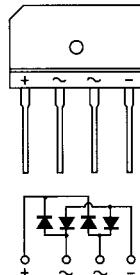
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| BAS216 | MA8330 | SLA-570KT3F |
| DTZ6.8C | 1SS355 | |
| DTZ9.1 | UDZ-TE-17-5.6B | |
| DTZ33B | UDZ-TE-17-9.1B | |



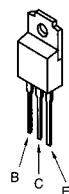
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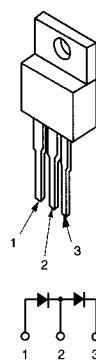
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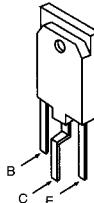
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SECTION 6

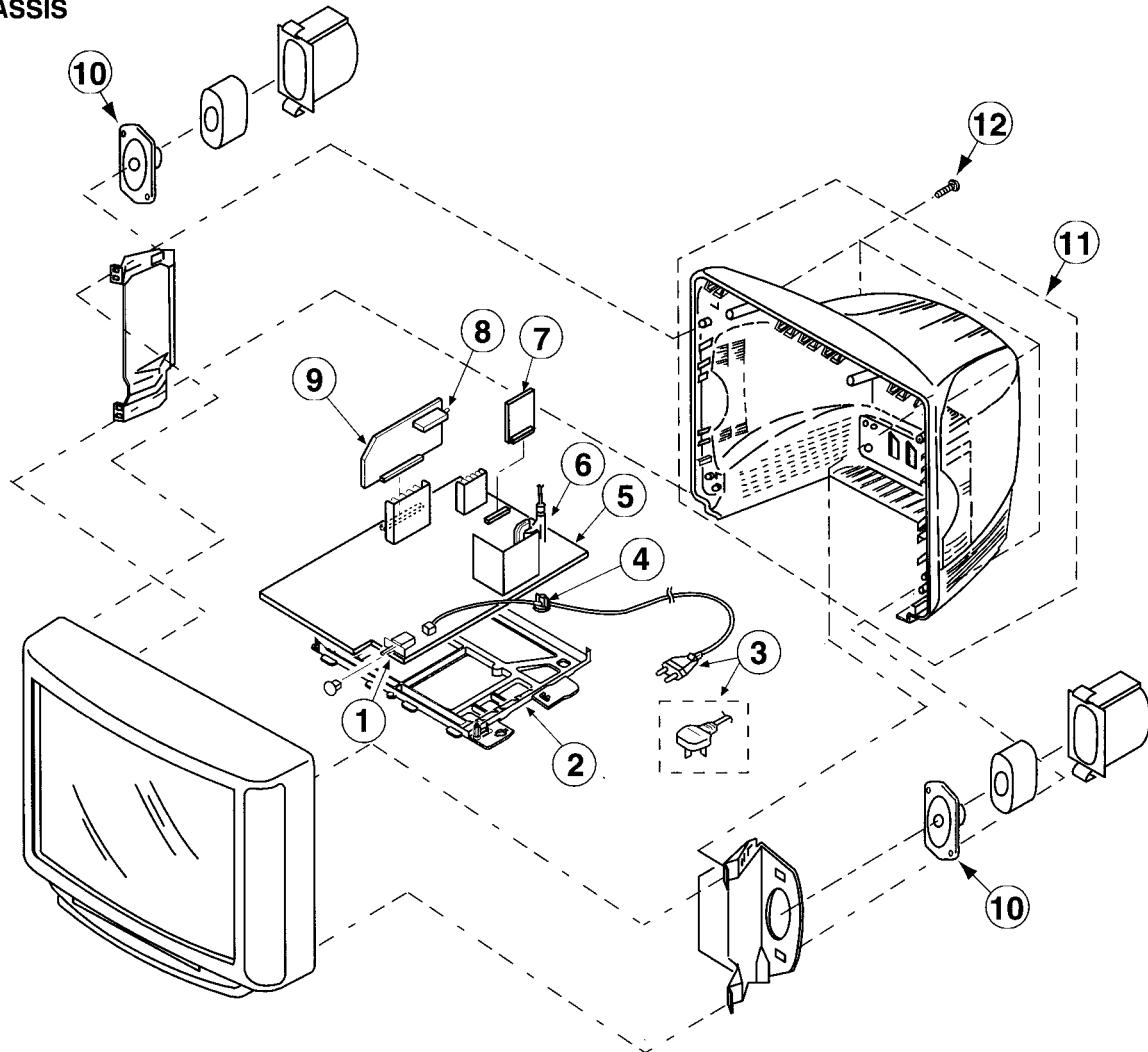
EXPLODED VIEWS

NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

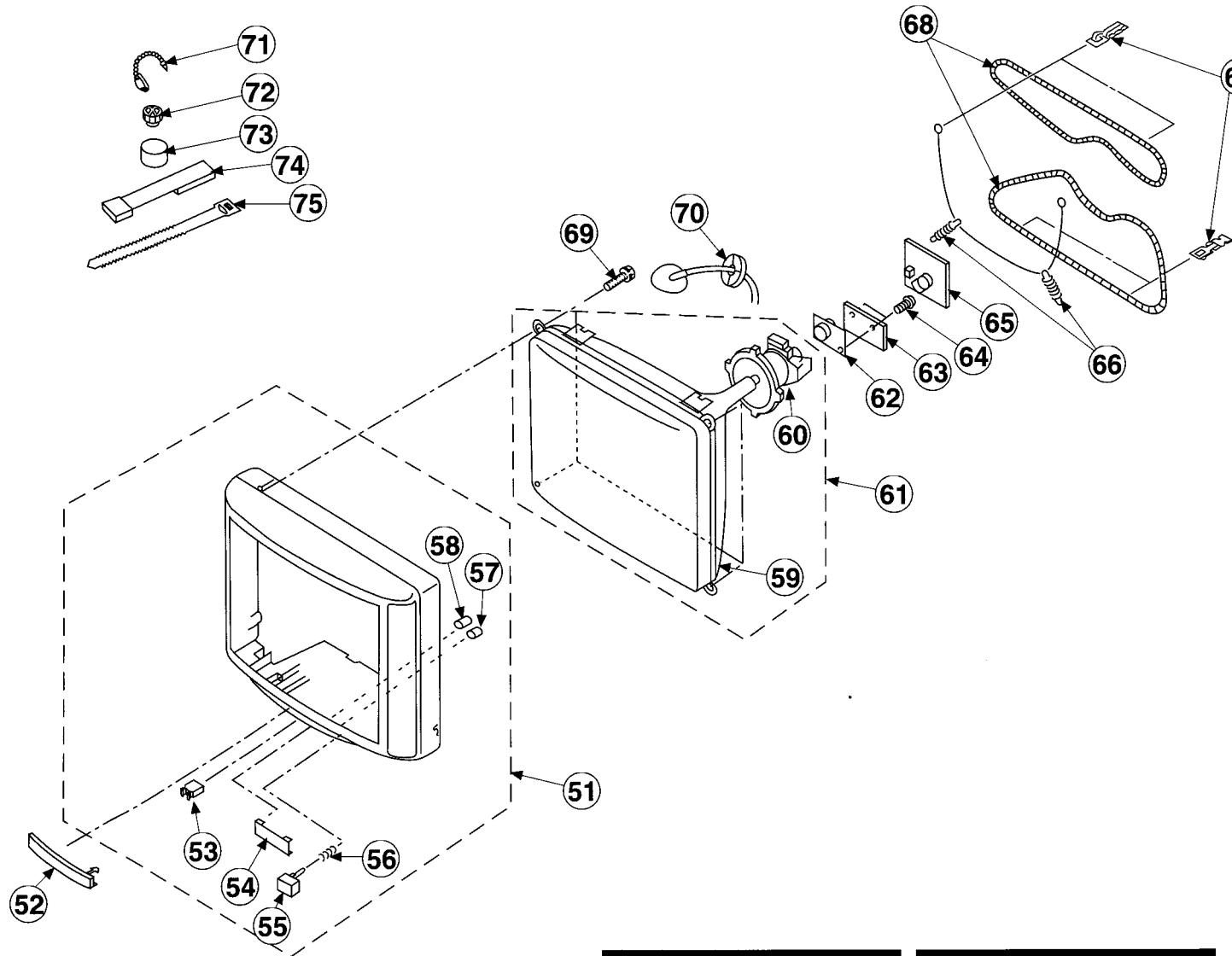
The components identified by shading and marked **A** are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS

| REF NO | PART NO | DESCRIPTION | REMARK | REF NO | PART NO | DESCRIPTION | REMARK |
|--------|----------------|---|--------|--------|---------------|---|--------|
| 1 | 1-571-433-21 | SWITCH, PUSH (AC POWER) | | 8 | 1-693-338-11 | TUNER/VIF (AEP) (KV-29X1A/29X1D/29X1E/29X1K/29X1L/ 29X1R) | |
| 2 | *4-203-315-01 | BRACKET, MAIN | | 9 | 1-693-340-11 | TUNER/VIF (FR) (KV-29X1B) | |
| 3 | A 1-751-680-11 | CORD, POWER (WITH NOISE FILTER) 2.5A/250V (KV-29X1A/29X1B/29X1D/ 29X1E) | | | 1-693-339-11 | TUNER/VIF (UK) (KV-29X1U) | |
| A | 1-690-279-21 | CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-29X1K/29X1R) | | | *A-1632-423-A | A BOARD, COMPLETE (KV-29X1A) | |
| A | 1-776-240-11 | CORD, POWER (FILTER) 3A/250V (KV-29X1L/29X1U) | | | *A-1632-425-A | A BOARD, COMPLETE (KV-29X1B) | |
| A | *4-202-531-01 | AC CORD LOCK (SC) | | | *A-1632-422-A | A BOARD, COMPLETE (KV-29X1D) | |
| 5 | *A-1642-165-A | D BOARD, COMPLETE | | | *A-1632-424-A | A BOARD, COMPLETE (KV-29X1E) | |
| 6 | A 1-453-159-11 | TRANSFORMER ASSY, FLYBACK (DI-160142) | | | *A-1632-426-A | A BOARD, COMPLETE (KV-29X1K) | |
| 7 | *A-1640-214-A | D2 BOARD, COMPLETE | | | *A-1632-433-A | A BOARD, COMPLETE (KV-29X1L) | |
| | | | | | *A-1632-427-A | A BOARD, COMPLETE (KV-29X1R) | |
| | | | | | *A-1632-400-A | A BOARD, COMPLETE (KV-29X1U) | |
| | | | | 10 | 1-544-727-11 | SPEAKER (7.5x13CM) | |
| | | | | 11 | X-4200-257-1 | COVER ASSY, REAR (SC) | |
| | | | | 12 | 4-039-358-01 | SCREW (4x16), (+) BV TAPPING | |

6-2. PICTURE TUBE



The components identified by shading and marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

| REF NO | PART NO | DESCRIPTION | REMARK | REF NO | PART NO | DESCRIPTION | REMARK |
|--------|---------------|-----------------------------------|--------|--------|--------------|--------------------------------|--------|
| 51 | X-4200-258-1 | BEZNET ASSY | 53-58 | 67 | 4-202-415-01 | CLIP, DGC (29") | |
| 52 | 4-203-364-01 | DOOR, CONTROL | | 68 | 1-406-807-11 | COIL, DEGAUSSING | |
| 53 | 4-047-464-01 | CATCHER, PUSH | | 69 | 4-036-188-01 | SCREW (M), PT | |
| 54 | 4-203-365-01 | WINDOW, ORNAMENTAL | | 70 | 4-202-693-01 | HOLDER, HV CABLE | |
| 55 | 4-203-362-01 | BUTTON, POWER | | 71 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 56 | 4-202-964-01 | SPRING | | 72 | 1-452-094-00 | MAGNET, ROTATABLE DISK; 15MM Ø | |
| 57 | *4-203-363-01 | GUIDE, LED LIGHT | | 73 | 1-452-032-00 | MAGNET, DISK; 10MM Ø | |
| 58 | 4-202-465-01 | GUIDE, LED LIGHT | | 74 | X-4387-214-1 | PERMALLOY ASSY, CORRECTION | |
| 59 | 8-733-856-05 | PICTURE TUBE (SD-269) (N68LCT602) | | 75 | 3-701-007-00 | BAND, BINDING | |
| 60 | 8-451-467-11 | DEFLECTION YOKE (Y29GXAB) | | | | | |
| 61 | 8-733-856-71 | ITC | 59-60 | | | | |
| 62 | 8-453-005-11 | NECK ASSY (NA297-M) | | | | | |
| 63 | *A-1644-070-A | VM BOARD, COMPLETE | | | | | |
| 64 | 4-639-357-01 | SCREW(3x8), (+) BV TAPPING | | | | | |
| 65 | *A-1638-082-A | C BOARD, COMPLETE | | | | | |
| 66 | 4-200-433-01 | SPRING, EXTENSION | | | | | |

SECTION 7

ELECTRICAL PARTS LIST

The components identified by shading and marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une trame et une marque sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

CAPACITORS COILS

MF : mF, PF : mmF MMH : mH, μ H : mH

RESISTORS

- All resistors are in ohms
- F : nonflammable

A

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------------|------------------------------|----------------------|---------|---------|--------------|----------------------|------------|
| *A-1632-423-A | A BOARD, COMPLETE (KV-29X1A) | ***** | | C112 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V |
| *A-1632-425-A | A BOARD, COMPLETE (KV-29X1B) | ***** | | C113 | 1-126-967-11 | ELECT 47MF | 20% 16V |
| *A-1632-422-A | A BOARD, COMPLETE (KV-29X1D) | ***** | | C120 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% 50V |
| *A-1632-424-A | A BOARD, COMPLETE (KV-29X1E) | ***** | | C121 | 1-163-113-00 | CERAMIC CHIP 68PF | 5% 50V |
| *A-1632-426-A | A BOARD, COMPLETE (KV-29X1K) | ***** | | C122 | 1-163-137-00 | CERAMIC CHIP 680PF | 5% 50V |
| *A-1632-433-A | A BOARD, COMPLETE (KV-29X1L) | ***** | | C123 | 1-163-113-00 | CERAMIC CHIP 68PF | 5% 50V |
| *A-1632-427-A | A BOARD, COMPLETE (KV-29X1R) | ***** | | C124 | 1-137-399-11 | FILM 0.1MF | 5% 50V |
| *A-1632-400-A | A BOARD, COMPLETE (KV-29X1U) | ***** | | C201 | 1-163-139-00 | CERAMIC CHIP 820PF | 10% 50V |
| 1-750-797-11 | SOCKET, PLCC | | | C202 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| < CAPACITOR > | | | | C203 | 1-126-933-11 | ELECT 100MF | 20% 16V |
| C1 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V | C204 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V |
| C2 | 1-126-965-11 | ELECT 22MF | 20% 50V | C205 | 1-126-965-11 | ELECT 22MF | 20% 50V |
| C3 | 1-163-104-00 | CERAMIC CHIP 30PF | 5% 50V | C206 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V |
| C4 | 1-163-104-00 | CERAMIC CHIP 30PF | 5% 50V | C207 | 1-164-505-11 | CERAMIC CHIP 2.2MF | 16V |
| C8 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V | C208 | 1-164-505-11 | CERAMIC CHIP 2.2MF | 16V |
| C10 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V | C209 | 1-164-505-11 | CERAMIC CHIP 2.2MF | 16V |
| C11 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V | C210 | 1-216-295-00 | METAL GLAZE 0 | 5% 1/10W |
| C15 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% 50V | C211 | 1-164-505-11 | CERAMIC CHIP 2.2MF | 16V |
| C18 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V | C212 | 1-164-346-11 | CERAMIC CHIP 1MF | 16V |
| C19 | 1-163-989-11 | CERAMIC CHIP 0.033MF | 10% 25V | C213 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% 50V |
| C20 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V | C214 | 1-164-346-11 | CERAMIC CHIP 1MF | 16V |
| C21 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V | C215 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% 50V |
| C22 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% 50V | C216 | 1-126-967-11 | ELECT 47MF | 20% 16V |
| C40 | 1-163-989-11 | CERAMIC CHIP 0.033MF | 10% 25V | C217 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V |
| C41 | 1-163-989-11 | CERAMIC CHIP 0.033MF | 10% 25V | C218 | 1-126-967-11 | ELECT 47MF | 20% 16V |
| C42 | 1-163-989-11 | CERAMIC CHIP 0.033MF | 10% 25V | C219 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V |
| C43 | 1-163-121-00 | CERAMIC CHIP 150PF | 5% 50V | C220 | 1-164-505-11 | CERAMIC CHIP 2.2MF | 16V |
| C44 | 1-163-989-11 | CERAMIC CHIP 0.033MF | 10% 25V | C221 | 1-164-505-11 | CERAMIC CHIP 2.2MF | 16V |
| C45 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V | C222 | 1-164-346-11 | CERAMIC CHIP 1MF | 16V |
| C80 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% 50V | C223 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% 50V |
| C81 | 1-164-005-11 | CERAMIC CHIP 0.47MF | 25V | C224 | 1-164-346-11 | CERAMIC CHIP 1MF | 16V |
| C82 | 1-163-037-11 | CERAMIC CHIP 0.022MF | 10% 50V | C225 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% 50V |
| C90 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V | C226 | 1-126-967-11 | ELECT 47MF | 20% 16V |
| C101 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V | C227 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V |
| C102 | 1-126-934-11 | ELECT 220MF | 20% 16V | C228 | 1-126-967-11 | ELECT 47MF | 20% 16V |
| C103 | 1-126-965-11 | ELECT 22MF | 20% 50V | C229 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V |
| C104 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% 50V | C230 | 1-216-295-00 | METAL GLAZE 0 | 5% 1/10W |
| C110 | 1-126-967-11 | ELECT 47MF | 20% 16V | C231 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V |
| | | | | C232 | 1-126-967-11 | ELECT 47MF | 20% 16V |
| | | | | C251 | 1-163-087-00 | CERAMIC CHIP 4PF | 0.25PF 50V |
| | | | | C252 | 1-163-087-00 | CERAMIC CHIP 4PF | 0.25PF 50V |
| | | | | C253 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% 50V |
| | | | | C254 | 1-163-109-00 | CERAMIC CHIP 47PF | 5% 50V |
| | | | | C255 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% 50V |
| | | | | C256 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V |

A

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK | | |
|---------|--------------|-----------------------|--------|---------|----------|---------------|-------------------------------|------------------------------------|-----|
| C257 | 1-126-965-11 | ELECT 22MF | 20% | 50V | C337 | 1-163-009-11 | CERAMIC CHIP 0.001MF | 10% | 50V |
| C258 | 1-126-964-11 | ELECT 10MF | 20% | 50V | C338 | 1-164-346-11 | CERAMIC CHIP 1MF | 16V | |
| C259 | 1-164-336-11 | CERAMIC CHIP 0.33MF | | 25V | C339 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C260 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | C340 | 1-126-933-11 | ELECT 100MF | 20% | 16V |
| C261 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% | 50V | C341 | 1-164-005-11 | CERAMIC CHIP 0.47MF | 25V | |
| C262 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% | 50V | C342 | 1-164-346-11 | CERAMIC CHIP 1MF | 16V | |
| C263 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | C343 | 1-163-017-00 | CERAMIC CHIP 0.0047MF | 10% | 50V |
| C264 | 1-126-962-11 | ELECT 3.3MF | 20% | 50V | C344 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V |
| C265 | 1-126-964-11 | ELECT 10MF | 20% | 50V | C347 | 1-164-005-11 | CERAMIC CHIP 0.47MF | 25V | |
| C266 | 1-126-964-11 | ELECT 10MF | 20% | 50V | C348 | 1-163-038-00 | CERAMIC CHIP 0.1MF | 25V | |
| C267 | 1-126-965-11 | ELECT 22MF | 20% | 50V | C350 | 1-126-964-11 | ELECT 10MF | 20% | 50V |
| C268 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | C351 | 1-164-505-11 | CERAMIC CHIP 2.2MF | 16V | |
| C269 | 1-163-131-00 | CERAMIC CHIP 390PF | 5% | 50V | C352 | 1-164-005-11 | CERAMIC CHIP 0.47MF | 25V | |
| C270 | 1-163-131-00 | CERAMIC CHIP 390PF | 5% | 50V | C353 | 1-164-505-11 | CERAMIC CHIP 2.2MF | 16V | |
| C271 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V | C354 | 1-164-005-11 | CERAMIC CHIP 0.47MF | 25V | |
| C272 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V | C355 | 1-126-965-11 | ELECT 22MF | 20% | 50V |
| C273 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V | C356 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V |
| C274 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V | C357 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% | 50V |
| C275 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V | C358 | 1-164-005-11 | CERAMIC CHIP 0.47MF | 25V | |
| C276 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V | C359 | 1-163-231-11 | CERAMIC CHIP 15PF | 5% | 50V |
| C277 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V | C360 | 1-163-231-11 | CERAMIC CHIP 15PF | 5% | 50V |
| C278 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V | C370 | 1-164-505-11 | CERAMIC CHIP 2.2MF | 16V | |
| | | | | | | | | (KV-29X1B/29X1D/29X1E/29X1K/29X1R) | |
| C279 | 1-126-965-11 | ELECT 22MF | 20% | 50V | C371 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V |
| C280 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | C372 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V |
| C281 | 1-126-965-11 | ELECT 22MF | 20% | 50V | | | | (KV-29X1B/29X1D/29X1E/29X1K/29X1R) | |
| C282 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | C373 | 1-164-489-11 | CERAMIC CHIP 0.22MF | 10% | 16V |
| C300 | 1-163-109-00 | CERAMIC CHIP 47PF | 5% | 50V | | | | (KV-29X1B/29X1D/29X1E/29X1K/29X1R) | |
| C301 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | | | | < FILTER > | |
| C302 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V | CF120 | 1-409-327-00 | TRAP, CERAMIC (6.5MHz) | (KV-29X1B) | |
| C303 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V | | | | < CONNECTOR > | |
| C304 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | | | | | |
| C305 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | CN1 | 1-695-302-11 | CONNECTOR, BOARD TO BOARD 50P | | |
| C306 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | CN2 | *1-568-880-51 | PIN, CONNECTOR 5P | | |
| C307 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | CN201 | 1-766-296-11 | CONNECTOR, DUAL SCART | | |
| C308 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | CN301 | *1-568-882-51 | PIN, CONNECTOR 7P | | |
| C309 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V | | | | < DIODE > | |
| C310 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V | D2 | 8-719-988-62 | DIODE 1SS355 | | |
| C311 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V | D10 | 8-719-158-15 | DIODE RD5.6S-B | | |
| C312 | 1-164-505-11 | CERAMIC CHIP 2.2MF | | 16V | D11 | 8-719-158-15 | DIODE RD5.6S-B | | |
| C313 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V | D12 | 8-719-158-15 | DIODE RD5.6S-B | | |
| C315 | 1-216-295-00 | METAL GLAZE 0 5% | | 1/10W | D101 | 8-719-977-81 | DIODE DTZ33B | | |
| C317 | 1-163-038-00 | CERAMIC CHIP 0.1MF | | 25V | D201 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C319 | 1-163-017-00 | CERAMIC CHIP 0.0047MF | 10% | 50V | D202 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C320 | 1-126-965-11 | ELECT 22MF | 20% | 50V | D203 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C321 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | D204 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C322 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | D205 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C323 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | D206 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C324 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | D207 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C325 | 1-164-346-11 | CERAMIC CHIP 1MF | | 16V | D208 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C326 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% | 50V | D209 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C327 | 1-137-374-11 | FILM 0.047MF | 5% | 50V | D210 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C328 | 1-126-964-11 | ELECT 10MF | 20% | 50V | D211 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C329 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | D212 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C330 | 1-130-777-00 | FILM 0.1MF | 5% | 63V | D213 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C331 | 1-137-581-11 | FILM 0.1MF | 5% | 100V | D214 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C332 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | D215 | 8-719-977-22 | DIODE DTZ9.1 | | |
| C333 | 1-126-933-11 | ELECT 100MF | 20% | 16V | D216 | 8-719-158-15 | DIODE RD5.6S-B | | |
| C334 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% | 50V | | | | | |
| C335 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | | | | | |
| C336 | 1-163-009-11 | CERAMIC CHIP 0.001MF | 10% | 50V | | | | | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|--|------------------------------------|---------|--------------|--|--------|
| D217 | 8-719-158-15 | DIODE RD5.6S-B | | Q80 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | |
| D218 | 8-719-158-15 | DIODE RD5.6S-B | | Q81 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| D220 | 8-719-988-62 | DIODE 1SS355 | | Q110 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | |
| D221 | 8-719-988-62 | DIODE 1SS355 | | Q111 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| D222 | 8-719-977-22 | DIODE DTZ9.1 | | Q112 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | |
| D223 | 8-719-977-22 | DIODE DTZ9.1 | | Q113 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| D224 | 8-719-977-22 | DIODE DTZ9.1 | | Q114 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| D225 | 8-719-977-22 | DIODE DTZ9.1 | | Q120 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | |
| D226 | 8-719-977-22 | DIODE DTZ9.1 | | Q121 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR (KV-29X1B) | |
| D227 | 8-719-977-13 | DIODE D1V6.8C | | Q122 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | |
| D251 | 8-719-047-16 | DIODE BAS216 | | Q124 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR (KV-29X1B) | |
| D320 | 8-719-977-22 | DIODE DTZ9.1 | | Q130 | 8-729-216-22 | TRANSISTOR 2SA1162-G (KV-29X1B) | |
| D370 | 8-719-047-16 | DIODE BAS216 | (KV-29X1B/29X1D/29X1E/29X1K/29X1R) | Q201 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | |
| | | | | Q202 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | |
| | | | | Q203 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | |
| | | | < ENCAPSULATED FILTER > | | | | |
| FL101 | 1-236-071-11 | ENCAPSULATED COMPONENT | | Q204 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | |
| FL201 | 1-236-071-11 | ENCAPSULATED COMPONENT | | Q205 | 8-729-901-01 | TRANSISTOR DTC144EK | |
| FL202 | 1-236-071-11 | ENCAPSULATED COMPONENT | | Q206 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| FL203 | 1-236-071-11 | ENCAPSULATED COMPONENT | | Q207 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| | | | | Q300 | 8-729-901-01 | TRANSISTOR DTC144EK | |
| | | | < IC > | | | | |
| IC1 | 8-759-376-75 | IC SDA5250M-GEG | | Q304 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | |
| IC2 | 8-759-334-20 | IC ST24E32M6TR | | Q305 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | |
| IC3 | 8-759-428-13 | IC TMS27PC010A-15FMBE101 (KV-29X1A/29X1B/29X1D/29X1K) | | Q306 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | |
| | 8-759-428-12 | IC TMS27PC010A-15FMBW101 (KV-29X1E/29X1L/29X1U) | | Q330 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| | 8-759-167-62 | IC TMS27PC010A-15FML (KV-29X1R) | | Q331 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | |
| | | | | Q332 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | |
| | | | | Q1002 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| | | | < RESISTOR > | | | | |
| IC4 | 8-759-394-57 | IC PST593C-MMP-4P | | JR2 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| IC201 | 8-752-076-06 | IC CXA2040Q-T4 | | JR101 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| IC202 | 8-759-376-56 | IC MSP3400C-PS (KV-29X1A/29X1D/29X1K/29X1R) | | JR201 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| | 8-759-376-80 | IC MSP3410-15 (KV-29X1B/29X1E/29X1L/29X1U) | | JR206 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| | | | | JR207 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| IC203 | 8-759-385-76 | IC MC14052BDR2 | | JR304 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| IC301 | 8-752-076-09 | IC CXA2000Q-TL | | JR305 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| IC302 | 8-759-288-85 | IC TDA4665T-T | | R1 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| IC303 | 8-759-251-56 | IC TDA8395T (KV-29X1B/29X1D/29X1E/29X1K/29X1R) | | R2 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| | | | | R3 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| | | | | R4 | 1-216-013-00 | METAL GLAZE 33 5% 1/10W | |
| | | | | R5 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| | | | < COIL > | | | | |
| L10 | 1-410-379-31 | INDUCTOR CHIP | 6.8UH | R7 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| L102 | 1-408-406-00 | INDUCTOR | 5.6UH (KV-29X1B) | R8 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| L111 | 1-410-993-11 | INDUCTOR CHIP | 1UH | R9 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| L120 | 1-408-408-00 | INDUCTOR | 8.2UH | R10 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| L121 | 1-408-397-00 | INDUCTOR | 1UH | R11 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| L122 | 1-408-408-00 | INDUCTOR | 8.2UH | R12 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| L300 | 1-408-607-31 | INDUCTOR | 22UH | R13 | 1-216-029-00 | METAL GLAZE 150 5% 1/10W (KV-29X1A/29X1D/29X1E/29X1K/29X1L/ 29X1R/29X1U) | |
| | | | | | | | |
| | | | < TRANSISTOR > | | | | |
| Q1 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | R14 | 1-216-029-00 | METAL GLAZE 150 5% 1/10W (KV-29X1A/29X1D/29X1E/29X1K/29X1L/ 29X1R/29X1U) | |
| Q4 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | R15 | 1-216-029-00 | METAL GLAZE 150 5% 1/10W (KV-29X1A/29X1D/29X1E/29X1K/29X1L/ 29X1R/29X1U) | |
| Q5 | 8-729-920-74 | TRANSISTOR 2SC2412K-QR | | R16 | 1-216-025-91 | METAL GLAZE 100 5% 1/10W (KV-29X1A/29X1D/29X1E/29X1K/29X1L/ 29X1R/29X1U) | |
| Q10 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | | |
| Q11 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | | |
| Q12 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | | |
| Q15 | 8-729-901-01 | TRANSISTOR DTC144EK | | | | | |
| Q16 | 8-729-901-01 | TRANSISTOR DTC144EK | | | | | |
| Q17 | 8-729-901-01 | TRANSISTOR DTC144EK | | | | | |
| Q18 | 8-729-901-01 | TRANSISTOR DTC144EK | | | | | |

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| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|--|--------|---------|--------------|---|--------|
| R17 | 1-216-025-91 | METAL GLAZE 100 5% 1/10W (KV-29X1A/29X1D/29X1E/29X1K/29X1L/ 29X1R/29X1U) | | R86 | 1-216-077-00 | METAL GLAZE 15K 5% 1/10W | |
| | | | | R87 | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W | |
| | | | | R88 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R18 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R91 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R19 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R92 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R20 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R93 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R21 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R94 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R24 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | | R95 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R25 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | | R97 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| R28 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | | R98 | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | |
| R29 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | | R101 | 1-216-061-00 | METAL GLAZE 3.3K 5% 1/10W | |
| R30 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | | R102 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R31 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | | R103 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R32 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R104 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R33 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R105 | 1-216-113-00 | METAL GLAZE 470K 5% 1/10W | |
| R34 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R106 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R35 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R110 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R36 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | | R111 | 1-216-029-00 | METAL GLAZE 150 5% 1/10W | |
| R37 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | | R112 | 1-216-029-00 | METAL GLAZE 150 5% 1/10W | |
| R38 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | | R113 | 1-216-001-00 | METAL GLAZE 10 5% 1/10W | |
| R39 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | | R114 | 1-216-029-00 | METAL GLAZE 150 5% 1/10W | |
| R40 | 1-216-067-00 | METAL GLAZE 5.6K 5% 1/10W | | R115 | 1-216-037-00 | METAL GLAZE 330 5% 1/10W | |
| R42 | 1-216-069-00 | METAL GLAZE 6.8K 5% 1/10W | | R116 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | |
| R44 | 1-216-069-00 | METAL GLAZE 6.8K 5% 1/10W | | R117 | 1-216-055-00 | METAL GLAZE 1.8K 5% 1/10W (KV-29X1A/29X1B/29X1D/29X1E/29X1K/ 29X1L/29X1R) | |
| R46 | 1-216-095-00 | METAL GLAZE 82K 5% 1/10W | | | 1-216-056-00 | METAL GLAZE 2K 5% 1/10W (KV-29X1U) | |
| R47 | 1-216-057-00 | METAL GLAZE 2.2K 5% 1/10W | | | | | |
| R48 | 1-216-121-91 | METAL GLAZE 1M 5% 1/10W | | | | | |
| R49 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | | | | |
| R50 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | | R118 | 1-216-071-00 | METAL GLAZE 8.2K 5% 1/10W | |
| R51 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | | R119 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R52 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | | R120 | 1-216-069-00 | METAL GLAZE 6.8K 5% 1/10W | |
| R53 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | | R121 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R54 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R122 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R58 | 1-216-063-91 | METAL GLAZE 3.9K 5% 1/10W | | R123 | 1-216-031-00 | METAL GLAZE 180 5% 1/10W | |
| R59 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R124 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R60 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R125 | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W | |
| R61 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R126 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R62 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R127 | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W | |
| R63 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R128 | 1-216-035-00 | METAL GLAZE 270 5% 1/10W | |
| R64 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R129 | 1-216-037-00 | METAL GLAZE 330 5% 1/10W | |
| R65 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R130 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R66 | 1-216-057-00 | METAL GLAZE 2.2K 5% 1/10W | | R131 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | |
| R67 | 1-216-057-00 | METAL GLAZE 2.2K 5% 1/10W | | R132 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R69 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R133 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R70 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R134 | 1-216-001-00 | METAL GLAZE 10 5% 1/10W | |
| R71 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R135 | 1-216-045-00 | METAL GLAZE 680 5% 1/10W | |
| R72 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R136 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R73 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R137 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R74 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R138 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R75 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R200 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R76 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R201 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R77 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R202 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R78 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | | R203 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R79 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | | R204 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R80 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | | R205 | 1-216-093-00 | METAL GLAZE 68K 5% 1/10W | |
| R81 | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W | | R206 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |
| R82 | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W | | R208 | 1-216-041-00 | METAL GLAZE 470 5% 1/10W | |
| R83 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | | R209 | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W | |
| R84 | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W | | R210 | 1-216-017-91 | METAL GLAZE 47 5% 1/10W | |
| R85 | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W | | R211 | 1-216-033-00 | METAL GLAZE 220 5% 1/10W | |

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| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK | |
|---------|--------------|-------------|------|----|-------|--------|---------|--------------|---------------------------|--|-------|-------|--------|--|
| R212 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | | R316 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | | |
| R213 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | | R318 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W | | |
| R214 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | R319 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | | |
| R216 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | R320 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | |
| R217 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | | R321 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | |
| R218 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | R322 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | |
| R219 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | | R323 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | | |
| R220 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | R324 | 1-216-063-91 | METAL GLAZE | 3.9K | 5% | 1/10W | | |
| R221 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | | R326 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | |
| R222 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | | R327 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | |
| R223 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | R328 | 1-216-129-00 | METAL GLAZE | 2.2M | 5% | 1/10W | | |
| R224 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | | R329 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | | |
| R225 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | | R330 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | |
| R226 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | | R331 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | | |
| R227 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | | R332 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | |
| R228 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | | R333 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | | |
| R229 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | | R334 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | | |
| R230 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | | R335 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | | |
| R232 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | R336 | 1-216-109-00 | METAL GLAZE | 330K | 5% | 1/10W | | |
| R233 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | R337 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | |
| R234 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | | R338 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | | |
| R235 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | R339 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | | |
| R236 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | | R340 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | |
| R237 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | R341 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | |
| R238 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | | R342 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | | |
| R239 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | | R343 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | | |
| R240 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | R344 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | | |
| R241 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | | R345 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | |
| R242 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | | R346 | 1-216-063-91 | METAL GLAZE | 3.9K | 5% | 1/10W | | |
| R243 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | | R347 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | |
| R244 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | | R348 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | |
| R245 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | | R349 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | |
| R246 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | | R350 | 1-216-042-00 | METAL GLAZE | 510 | 5% | 1/10W | | |
| R247 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | | R351 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | | |
| R249 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | | R352 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | | |
| R255 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | R353 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | | |
| R256 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | R354 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | | |
| R270 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | | R357 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | | |
| R271 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | | R370 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | |
| R272 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | | | < TUNER > | | | | | | |
| R273 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | | TU101 | 1-693-338-11 | TUNER/VIF (AEP) | (KV-29X1A/29X1D/29X1E/29X1K/29X1L/29X1R) | | | | |
| R280 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | | | 1-693-340-11 | TUNER/VIF (FR) (KV-29X1B) | | | | | |
| R281 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | | | 1-693-339-11 | TUNER/VIF (UK) (KV-29X1U) | | | | | |
| R282 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W | | | < CRYSTAL > | | | | | | |
| R283 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | | | | | | | | | |
| R284 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | | | | | | | | | |
| R285 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W | | | | | | | | | |
| R286 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | | | | | | | | | |
| R300 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | X1 | 1-767-120-21 | VIBRATOR, CERAMIC | | | | | |
| R301 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | | X201 | 1-760-628-11 | VIBRATOR, CRYSTAL | | | | | |
| R302 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | X301 | 1-567-504-11 | OSCILLATOR, CRYSTAL | | | | | |
| R303 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | X302 | 1-567-505-11 | OSCILLATOR, CRYSTAL | | | | | |
| R308 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | | X303 | 1-767-127-11 | VIBRATOR, CERAMIC | | | | | |
| R309 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | | | | | | | | | |
| R310 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | | | | | | | | | |
| R311 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | | | | | | | | |
| R312 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | | | | | | | | |
| R313 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | | | | | | | | |
| R314 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | | | | | | | | |
| R315 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | | | | | | | | | |

IF (KV-29X1A/29X1D/29X1E/29X1K /
29X1L/29X1R/29X1U)

IF (KV-29X1B)

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|--------------|--|------------------------|----------|---------|--------------|---------------------------|---|
| A-1652-037-A | IF BOARD, COMPLETE (KV-29X1A/29X1D/ ***** 29X1E/29X1K/ 29X1L/29X1R) | | | R23 | 1-216-049-91 | METAL GLAZE 1K 5% | 1/10W |
| A-1652-038-A | IF BOARD, COMPLETE (KV-29X1U) ***** | | | R24 | 1-216-295-91 | METAL GLAZE 0 5% | 1/10W |
| | | | | R25 | 1-216-057-00 | METAL GLAZE 2.2K 5% | 1/10W |
| | | | | R021 | 1-216-174-00 | METAL GLAZE 100 5% | 1/8W |
| | | | | | | | < VARIABLE RESISTOR > |
| | | | | RV01 | 1-226-703-11 | RES, ADJ, METAL GLAZE 10K | |
| | | | | | | | ***** |
| | | | | | | | A-1652-036-A IF BOARD, COMPLETE (KV-29X1B) ***** |
| | | | | | | | |
| | | | | | | | < CAPACITOR > |
| C01 | 1-164-337-11 | CERAMIC CHIP 2.2MF | 16V | C01 | 1-162-638-11 | CERAMIC CHIP 1MF | 16V |
| C02 | 1-164-337-11 | CERAMIC CHIP 2.2MF | 16V | C02 | 1-164-337-11 | CERAMIC CHIP 2.2MF | 16V |
| C03 | 1-104-957-11 | ELECT 47MF | 20% 16V | C03 | 1-104-957-11 | ELECT 47MF | 20% 16V |
| C04 | 1-135-259-11 | TANTAL. CHIP 10MF | 20% 6.3V | C04 | 1-135-259-11 | TANTAL. CHIP 10MF | 20% 6.3V |
| C05 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C05 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C06 | 1-164-005-11 | CERAMIC CHIP 0.47MF | 16V | C06 | 1-164-005-11 | CERAMIC CHIP 0.47MF | 16V |
| C08 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V | C08 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V |
| C09 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C09 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C10 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C10 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C11 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C11 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C15 | 1-124-282-00 | ELECT 22MF | 20% 25V | C12 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V |
| C16 | 1-162-638-11 | CERAMIC CHIP 1MF | 16V | C13 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V |
| C18 | 1-164-337-11 | CERAMIC CHIP 2.2MF | 16V | C14 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V |
| C19 | 1-124-937-11 | ELECT 10MF | 20% 16V | C15 | 1-104-957-11 | ELECT 47MF | 20% 16V |
| | | | | C16 | 1-162-638-11 | CERAMIC CHIP 1MF | 16V |
| | | | | C17 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V |
| | | | | C18 | 1-164-337-11 | CERAMIC CHIP 2.2MF | 16V |
| | | | | C20 | 1-124-937-11 | ELECT 10MF | 20% 16V |
| | | | | C21 | 1-164-506-11 | CERAMIC CHIP 4.7MF | 16V |
| | | | | | | | < FILTER > |
| CF01 | 1-404-134-00 | TRAP, CERAMIC (5.5MHZ) | | CF01 | 1-409-430-11 | TRAP, CERAMIC | |
| SWF04 | 1-767-084-11 | FILTER, SURFACE WAVE | | SWF01 | 1-579-273-11 | FILTER, SURFACE WAVE | |
| | | | | SWF02 | 1-760-329-11 | FILTER, SURFACE WAVE | |
| | | | | SWF03 | 1-767-083-11 | FILTER, SURFACE WAVE | |
| | | | | | | | < IC > |
| IC01 | 8-759-385-26 | IC TDA4472-CFLG3 | | IC01 | 8-759-069-36 | IC MC74HC4046AF | |
| | | | | | | | < COIL > |
| | | | | LO2 | 1-408-406-00 | INDUCTOR 5.6UH | |
| L02 | 1-408-408-00 | INDUCTOR 8.2UH | | LO4 | 1-408-419-00 | INDUCTOR 68UH | |
| L04 | 1-408-419-00 | INDUCTOR 68UH | | LO5 | 1-410-987-11 | INDUCTOR CHIP 0.33UH | |
| L08 | 1-410-992-11 | INDUCTOR CHIP 0.82UH | | LO6 | 1-408-399-00 | INDUCTOR 1.5UH | |
| | | | | | | | < VARIABLE COIL > |
| | | | | LV01 | 1-411-874-11 | COIL | |
| | | | | | | | < TRANSISTOR > |
| Q01 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | Q01 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| | | | | Q02 | 8-729-035-11 | TRANSISTOR BF799-GEG | |
| | | | | Q03 | 8-729-035-11 | TRANSISTOR BF799-GEG | |
| | | | | Q04 | 8-729-901-01 | TRANSISTOR DTC144EK | |
| | | | | | | | < RESISTOR > |
| JR01 | 1-216-296-91 | METAL GLAZE 0 5% | 1/10W | | | | |
| JR02 | 1-216-296-91 | METAL GLAZE 0 5% | 1/8W | | | | |
| JR03 | 1-216-295-00 | METAL GLAZE 0 5% | 1/10W | | | | |
| JR04 | 1-216-296-91 | METAL GLAZE 0 5% | 1/8W | | | | |
| JR05 | 1-216-295-00 | METAL GLAZE 0 5% | 1/10W | | | | |
| JR07 | 1-216-295-00 | METAL GLAZE 0 5% | 1/10W | | | | |
| R01 | 1-216-029-00 | METAL GLAZE 150 5% | 1/10W | | | | |
| R02 | 1-216-089-91 | METAL GLAZE 47K 5% | 1/10W | | | | |
| R03 | 1-216-089-91 | METAL GLAZE 47K 5% | 1/10W | | | | |
| R04 | 1-216-057-00 | METAL GLAZE 2.2K 5% | 1/10W | | | | |
| R05 | 1-216-081-00 | METAL GLAZE 22K 5% | 1/10W | | | | |
| R06 | 1-216-057-00 | METAL GLAZE 2.2K 5% | 1/10W | | | | |
| R07 | 1-216-025-91 | METAL GLAZE 100 5% | 1/10W | | | | |
| R08 | 1-216-174-00 | METAL GLAZE 100 5% | 1/8W | | | | |
| R09 | 1-216-045-00 | METAL GLAZE 680 5% | 1/10W | | | | |
| R10 | 1-216-041-00 | METAL GLAZE 470 5% | 1/10W | | | | |
| R11 | 1-216-051-00 | METAL GLAZE 1.2K 5% | 1/10W | | | | |

Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and marked are critical for safety.
Replace only with the part number specified.

IF (KV-29X1B)

C

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK | | |
|---------------------------------|---------------|-----------------------|----------|---------|--------------|---------------------------------|---------------|------------------------|---------------|
| < RESISTOR > | | | | | | | | | |
| JR01 | 1-216-296-91 | METAL GLAZE | 0 | 5% | 1/8W | D701 | 8-719-109-72 | DIODE RD3.9ES-B2 | |
| JR02 | 1-216-296-91 | METAL GLAZE | 0 | 5% | 1/8W | D702 | 8-719-991-33 | DIODE 1SS133T-77 | |
| JR03 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | D706 | 8-719-991-33 | DIODE 1SS133T-77 | |
| JR04 | 1-216-296-91 | METAL GLAZE | 0 | 5% | 1/8W | D707 | 8-719-991-33 | DIODE 1SS133T-77 | |
| JR05 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | D708 | 8-719-991-33 | DIODE 1SS133T-77 | |
| JR07 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W | D709 | 8-719-991-33 | DIODE 1SS133T-77 | |
| R01 | 1-216-029-00 | METAL GLAZE | 150 | 5% | 1/10W | D710 | 8-719-991-33 | DIODE 1SS133T-77 | |
| R02 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W | D711 | 8-719-302-43 | DIODE EL1Z | |
| R03 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W | D714 | 8-719-991-33 | DIODE 1SS133T-77 | |
| R04 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | D715 | 8-719-991-33 | DIODE 1SS133T-77 | |
| R05 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | D716 | 8-719-991-33 | DIODE 1SS133T-77 | |
| R06 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | D717 | 8-719-991-33 | DIODE 1SS133T-77 | |
| R07 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W | D718 | 8-719-991-33 | DIODE 1SS133T-77 | |
| R08 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W | D719 | 8-719-991-33 | DIODE 1SS133T-77 | |
| R09 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | D720 | 8-719-991-33 | DIODE 1SS133T-77 | |
| R10 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | < CRT SOCKET > | | | |
| R11 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | J701 1-216-290-12 CRT SOCKET | | | |
| R12 | 1-216-063-91 | METAL GLAZE | 3.9K | 5% | 1/10W | < COIL > | | | |
| R13 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | L704 1-408-609-41 INDUCTOR 33UH | | | |
| R14 | 1-216-023-00 | METAL GLAZE | 82 | 5% | 1/10W | < TRANSISTOR > | | | |
| R15 | 1-216-017-91 | METAL GLAZE | 47 | 5% | 1/10W | Q702 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| R16 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | Q703 | 8-729-906-70 | TRANSISTOR BF871-127 | |
| R17 | 1-216-017-91 | METAL GLAZE | 47 | 5% | 1/10W | Q704 | 8-729-200-17 | TRANSISTOR 2SA1091-0 | |
| R18 | 1-216-013-00 | METAL GLAZE | 33 | 5% | 1/10W | Q705 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| R20 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W | Q706 | 8-729-906-70 | TRANSISTOR BF871-127 | |
| R23 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | Q707 | 8-729-200-17 | TRANSISTOR 2SA1091-0 | |
| R25 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | Q708 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| R21 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W | Q709 | 8-729-906-70 | TRANSISTOR BF871-127 | |
| < VARIABLE RESISTOR > | | | | | | | | | |
| RV01 | 1-226-703-11 | RES, ADJ, METAL GLAZE | 10K | | | Q710 | 8-729-200-17 | TRANSISTOR 2SA1091-0 | |
| RV02 | 1-226-703-11 | RES, ADJ, METAL GLAZE | 10K | | | Q711 | 8-729-173-38 | TRANSISTOR 2SA733-K | |
| ***** | | | | | | | | | |
| < RESISTOR > | | | | | | | | | |
| *A-1638-082-A C BOARD, COMPLETE | | | | R704 | 1-216-486-00 | METAL OXIDE | 8.2K 5% 3W F | | |
| ***** | | | | R705 | 1-260-103-11 | CARBON | 2.2K 5% 1/2W | | |
| < CAPACITOR > | | | | R706 | 1-247-815-91 | CARBON | 220 5% 1/4W | | |
| C702 | 1-102-824-00 | CERAMIC | 470PF | 5% | 50V | R707 | 1-249-408-11 | CARBON | 180 5% 1/4W |
| C703 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V | R709 | 1-202-844-00 | SOLID | 330K 10% 1/2W |
| C708 | 1-162-114-00 | CERAMIC | 0.0047MF | | | R711 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W |
| C710 | 1-107-652-11 | ELECT | 10MF | 20% | 250V | R712 | 1-260-103-11 | CARBON | 2.2K 5% 1/2W |
| C712 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V | R714 | 1-216-486-00 | METAL OXIDE | 8.2K 5% 3W F |
| C714 | 1-126-967-11 | ELECT | 47MF | 20% | 16V | R715 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| C717 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V | R716 | 1-247-815-91 | CARBON | 220 5% 1/4W |
| C718 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V | R717 | 1-249-408-11 | CARBON | 180 5% 1/4W |
| C719 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V | R718 | 1-202-814-11 | SOLID | 33K 10% 1/2W |
| C722 | 1-101-880-00 | CERAMIC | 47PF | 5% | 50V | R720 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W |
| C723 | 1-101-880-00 | CERAMIC | 47PF | 5% | 50V | R722 | 1-202-848-00 | SOLID | 680K 10% 1/2W |
| C724 | 1-101-880-00 | CERAMIC | 47PF | 5% | 50V | R723 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| < CONNECTOR > | | | | R724 | 1-202-846-00 | SOLID | 470K 10% 1/2W | | |
| CN701 | 1-778-037-11 | PIN, CONNECTOR | 6P | | | R726 | 1-260-103-11 | CARBON | 2.2K 5% 1/2W |
| CN702 | 1-695-915-11 | TAB (CONTACT) | | | | R727 | 1-247-815-91 | CARBON | 220 5% 1/4W |
| CN703 | *1-568-882-51 | PIN, CONNECTOR | 7P | | | R728 | 1-216-350-11 | METAL OXIDE | 1.2 5% 1W F |
| | | | | | | R729 | 1-249-408-11 | CARBON | 180 5% 1/4W |
| | | | | | | R731 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W |
| | | | | | | R733 | 1-249-415-11 | CARBON | 680 5% 1/4W |
| | | | | | | R734 | 1-247-807-31 | CARBON | 100 5% 1/4W |
| | | | | | | R735 | 1-249-415-11 | CARBON | 680 5% 1/4W |

C**D2****D**

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| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|--------------------|---------------------------|-----------------|---------|--------------|-------------|-------------------|
| R736 | 1-216-486-00 | METAL OXIDE | 8.2K 5% 3W F | C509 | 1-136-165-00 | FILM | 0.1MF 5% 50V |
| R739 | 1-249-417-11 | CARBON | 1K 5% 1/4W | C510 | 1-126-969-11 | ELECT | 220MF 20% 50V |
| R740 | 1-249-415-11 | CARBON | 680 5% 1/4W | C511 | 1-136-202-11 | FILM | 0.33MF 5% 63V |
| R741 | 1-202-549-00 | SOLID | 100 20% 1/2W | C513 | 1-106-220-00 | MYLAR | 0.1MF 10% 100V |
| R744 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | C514 | 1-136-165-00 | FILM | 0.1MF 5% 50V |
| R745 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | C515 | 1-126-941-11 | ELECT | 470MF 20% 25V |
| R746 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | C517 | 1-126-941-11 | ELECT | 470MF 20% 25V |
| R747 | 1-249-437-11 | CARBON | 47K 5% 1/4W | C518 | 1-102-228-00 | CERAMIC | 470PF 10% 500V |
| R748 | 1-249-417-11 | CARBON | 1K 5% 1/4W | C519 | 1-102-228-00 | CERAMIC | 470PF 10% 500V |
| R749 | 1-249-435-11 | CARBON | 33K 5% 1/4W | C520 | 1-126-941-11 | ELECT | 470MF 20% 25V |
| < VARIABLE RESISTOR > | | | | | | | |
| RV701 | 1-230-641-11 | RES, ADJ, METAL GLAZE | 2.2M | C521 | 1-124-006-11 | ELECT | 10MF 20% 25V |
| RV702 | 1-241-656-21 | RES, ADJ, METAL FILM | 110M | C522 | 1-126-964-11 | ELECT | 10MF 20% 50V |
| ***** | | | | | | | |
| *A-1640-214-A D2 BOARD, COMPLETE | | | | | | | |
| ***** | | | | | | | |
| < CAPACITOR > | | | | | | | |
| C1801 | 1-126-967-11 | ELECT | 47MF 20% 50V | C602 | 1-161-964-91 | CERAMIC | 0.0047MF 20% 250V |
| C1803 | 1-137-368-11 | FILM | 0.0047MF 5% 50V | C603 | 1-125-555-11 | ELECT | 330MF 20% 400V |
| C1804 | 1-126-964-11 | ELECT | 10MF 20% 50V | C604 | 1-126-968-11 | ELECT | 100MF 20% 50V |
| C1807 | 1-137-366-11 | FILM | 0.0022MF 5% 50V | C605 | 1-107-929-11 | ELECT | 10MF 20% 100V |
| < CONNECTOR > | | | | | | | |
| CN1801 | 1-573-299-21 | CONNECTOR, BOARD TO BOARD | 10P | C606 | 1-162-318-11 | CERAMIC | 0.001MF 10% 500V |
| CN1803 | *1-568-878-51 | PIN, CONNECTOR | 3P | C607 | 1-104-666-11 | ELECT | 220MF 20% 25V |
| < DIODE > | | | | | | | |
| D1802 | 8-719-110-17 | DIODE RD10ESB2 | | C608 | 1-109-880-11 | FILM | 0.0015MF 3% 2KV |
| < IC > | | | | | | | |
| IC1801 | 8-759-701-59 | IC MCT7809CT | | C609 | 1-102-228-00 | CERAMIC | 470PF 10% 500V |
| IC1802 | 8-759-603-37 | IC M5216P | | C610 | 1-102-228-00 | CERAMIC | 470PF 10% 500V |
| < IC LINK > | | | | | | | |
| JW1802 1-533-605-91 LINK, IC 0.4A (ICP-F10) | | | | | | | |
| < RESISTOR > | | | | | | | |
| R1807 | 1-247-883-00 | CARBON | 150K 5% 1/4W | C611 | 1-102-228-00 | CERAMIC | 220MF 20% 300V |
| R1809 | 1-249-429-11 | CARBON | 10K 5% 1/4W | C612 | 1-111-160-11 | ELECT | 22MF 20% 100V |
| R1810 | 1-249-429-11 | CARBON | 10K 5% 1/4W | C613 | 1-124-347-00 | ELECT | 100MF 20% 160V |
| R1811 | 1-249-429-11 | CARBON | 10K 5% 1/4W | C614 | 1-128-526-11 | ELECT | 100MF 20% 25V |
| R1812 | 1-249-429-11 | CARBON | 10K 5% 1/4W | C615 | 1-111-067-11 | ELECT | 0.001F 20% 25V |
| ***** | | | | | | | |
| *A-1642-165-A D BOARD, COMPLETE | | | | | | | |
| ***** | | | | | | | |
| 4-201-023-01 | SPACER, INSULATING | | | C616 | 1-111-067-11 | ELECT | 0.001F 20% 25V |
| 4-202-373-01 | SPRING, IC | | | C617 | 1-128-339-11 | ELECT | 2200MF 20% 16V |
| < CAPACITOR > | | | | | | | |
| C502 | 1-102-824-00 | CERAMIC | 470PF 5% 50V | C618 | 1-136-165-00 | FILM | 0.1MF 5% 50V |
| C503 | 1-136-165-00 | FILM | 0.1MF 5% 50V | C619 | 1-102-228-00 | CERAMIC | 470PF 10% 500V |
| C504 | 1-102-824-00 | CERAMIC | 470PF 5% 50V | C620 | 1-102-228-00 | CERAMIC | 470PF 10% 500V |
| C506 | 1-126-941-11 | ELECT | 470MF 20% 25V | C621 | 1-136-165-00 | FILM | 0.1MF 5% 50V |
| C507 | 1-109-953-11 | ELECT | 2.2MF 20% 50V | C622 | 1-104-797-11 | ELECT | 0.47MF 20% 100V |
| ***** | | | | | | | |
| *A-1642-165-A D BOARD, COMPLETE | | | | | | | |
| ***** | | | | | | | |
| 4-201-023-01 | SPACER, INSULATING | | | C623 | 1-104-666-11 | ELECT | 220MF 20% 25V |
| 4-202-373-01 | SPRING, IC | | | C624 | 1-136-165-00 | FILM | 0.1MF 5% 50V |
| < IC LINK > | | | | | | | |
| JW1802 1-533-605-91 LINK, IC 0.4A (ICP-F10) | | | | | | | |
| < RESISTOR > | | | | | | | |
| R1807 | 1-247-883-00 | CARBON | 150K 5% 1/4W | C625 | 1-126-967-11 | ELECT | 47MF 20% 50V |
| R1809 | 1-249-429-11 | CARBON | 10K 5% 1/4W | C626 | 1-104-666-11 | ELECT | 220MF 20% 25V |
| R1810 | 1-249-429-11 | CARBON | 10K 5% 1/4W | C627 | 1-126-964-11 | ELECT | 10MF 20% 50V |
| R1811 | 1-249-429-11 | CARBON | 10K 5% 1/4W | C628 | 1-111-097-11 | ELECT | 0.0022F 20% 35V |
| R1812 | 1-249-429-11 | CARBON | 10K 5% 1/4W | C629 | 1-111-097-11 | ELECT | 0.0022F 20% 35V |
| ***** | | | | | | | |
| < RESISTOR > | | | | | | | |
| R1807 | 1-247-883-00 | CARBON | 150K 5% 1/4W | C630 | 1-111-097-11 | ELECT | 0.0022F 20% 35V |
| R1809 | 1-249-429-11 | CARBON | 10K 5% 1/4W | C631 | 1-126-965-11 | ELECT | 22MF 20% 50V |
| R1810 | 1-249-429-11 | CARBON | 10K 5% 1/4W | C632 | 1-104-666-11 | ELECT | 220MF 20% 25V |
| R1811 | 1-249-429-11 | CARBON | 10K 5% 1/4W | C633 | 1-107-564-11 | FILM | 0.22MF 20% 300V |
| R1812 | 1-249-429-11 | CARBON | 10K 5% 1/4W | C634 | 1-107-564-11 | FILM | 0.22MF 20% 300V |
| ***** | | | | | | | |
| < IC > | | | | | | | |
| C502 | 1-102-824-00 | CERAMIC | 470PF 5% 50V | C635 | 1-107-564-11 | FILM | 0.22MF 20% 300V |
| C503 | 1-136-165-00 | FILM | 0.1MF 5% 50V | C636 | 1-113-890-51 | ELECT | 0.0022MF 20% 250V |
| C504 | 1-102-824-00 | CERAMIC | 470PF 5% 50V | C640 | 1-106-220-00 | MYLAR | 0.1MF 10% 100V |
| C506 | 1-126-941-11 | ELECT | 470MF 20% 25V | C647 | 1-162-116-00 | CERAMIC | 680PF 10% 2KV |
| C507 | 1-109-953-11 | ELECT | 2.2MF 20% 50V | C651 | 1-102-228-00 | CERAMIC | 470PF 10% 500V |
| ***** | | | | | | | |
| < CAPACITOR > | | | | | | | |
| C502 | 1-102-824-00 | CERAMIC | 470PF 5% 50V | C800 | 1-137-368-11 | FILM | 0.0047MF 5% 50V |
| C503 | 1-136-165-00 | FILM | 0.1MF 5% 50V | C801 | 1-137-372-11 | FILM | 0.022MF 5% 50V |
| C504 | 1-102-824-00 | CERAMIC | 470PF 5% 50V | C802 | 1-136-153-00 | FILM | 0.01MF 5% 50V |
| C506 | 1-126-941-11 | ELECT | 470MF 20% 25V | C804 | 1-136-165-00 | FILM | 0.1MF 5% 50V |
| C507 | 1-109-953-11 | ELECT | 2.2MF 20% 50V | C805 | 1-136-207-11 | FILM | 0.047MF 10% 250V |
| ***** | | | | | | | |
| < IC > | | | | | | | |
| C502 | 1-102-824-00 | CERAMIC | 470PF 5% 50V | C806 | 1-104-999-11 | MYLAR | 0.1MF 10% 200V |
| C503 | 1-136-165-00 | FILM | 0.1MF 5% 50V | C807 | 1-136-109-00 | FILM | 0.68MF 5% 200V |
| C504 | 1-102-824-00 | CERAMIC | 470PF 5% 50V | C808 | 1-137-205-11 | FILM | 0.1MF 5% 400V |
| C506 | 1-126-941-11 | ELECT | 470MF 20% 25V | C810 | 1-107-683-11 | ELECT | 2.2MF 0 250V |
| C507 | 1-109-953-11 | ELECT | 2.2MF 20% 50V | C811 | 1-102-212-00 | CERAMIC | 820PF 10% 500V |

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D

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------------|---------------|-------------------------------|----------|------------------|--|-------------|--|
| C812 | 1-136-125-00 | FILM | 0.68MF | 5% | 400V | CN1420 | *1-568-878-51 PIN, CONNECTOR 3P < DIODE > |
| C813 | 1-129-722-00 | FILM | 0.047MF | 10% | 630V | D500 | 8-719-109-85 DIODE RD5.1ES-B2 |
| C814 | 1-136-565-11 | FILM | 0.015MF | 3% | 1.4KV | D502 | 8-719-979-85 DIODE EGP20G |
| C815 | 1-136-562-11 | MYLAR | 0.0082MF | 10% | 400V | D503 | 8-719-979-85 DIODE EGP20G |
| C816 | 1-161-754-00 | CERAMIC | 0.001MF | 10% | 2KV | D504 | 8-719-991-33 DIODE 1SS133T-77 |
| C817 | 1-161-754-00 | CERAMIC | 0.001MF | 10% | 2KV | D505 | 8-719-982-03 DIODE MTZJ-3.6A |
| C818 | 1-162-134-11 | CERAMIC | 470PF | 10% | 2KV | D506 | 8-719-991-33 DIODE 1SS133T-77 |
| C819 | 1-136-208-11 | FILM | 0.068MF | 10% | 250V | D507 | 8-719-109-85 DIODE RD5.1ES-B2 |
| C820 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V | D600 | 8-719-510-53 DIODE D4SB60L |
| C821 | 1-162-114-00 | CERAMIC | 0.0047MF | | 2KV | D601 | 8-719-046-77 DIODE EM1-V1 |
| C822 | 1-107-662-11 | ELECT | 22MF | 20% | 250V | D603 | 8-719-109-97 DIODE RD6.8ES-B2 |
| C824 | 1-123-024-21 | ELECT | 33MF | | 160V | D604 | 8-719-046-75 DIODE EU-1-V1 |
| C829 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V | D605 | 8-719-302-43 DIODE EL1Z |
| C830 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V | D606 | 8-719-302-43 DIODE EL1Z |
| C832 | 1-124-903-11 | ELECT | 1MF | 20% | 50V | D607 | 8-719-046-78 DIODE EG-1Z-V1 |
| C834 | 1-128-551-11 | ELECT | 22MF | 20% | 25V | D608 | 8-719-312-94 DIODE EU2-V1 |
| C835 | 1-162-318-11 | CERAMIC | 0.001MF | 10% | 500V | D609 | 8-719-301-64 DIODE RU4DS |
| C836 | 1-162-117-00 | CERAMIC | 100PF | 10% | 500V | D610 | 8-719-046-74 DIODE AU-01Z-V1 |
| C838 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V | D611 | 8-719-045-48 DIODE FML-G12S |
| C839 | 1-136-189-00 | FILM | 0.1MF | 10% | 250V | D612 | 8-719-046-76 DIODE RU-3YX-V1 |
| C845 | 1-102-110-00 | CERAMIC | 220PF | 10% | 50V | D613 | 8-719-045-48 DIODE FML-G12S |
| C901 | 1-101-810-00 | CERAMIC | 100PF | 5% | 500V | D614 | 8-719-045-48 DIODE FML-G12S |
| C902 | 1-137-372-11 | FILM | 0.022MF | 5% | 50V | D615 | 8-719-046-75 DIODE EU-1-V1 |
| C903 | 1-137-372-11 | FILM | 0.022MF | 5% | 50V | D616 | 8-719-110-03 DIODE RD7.5ESB2 |
| C904 | 1-104-665-11 | ELECT | 100MF | 20% | 25V | D617 | 8-719-991-33 DIODE 1SS133T-77 |
| C905 | 1-126-964-11 | ELECT | 10MF | 20% | 50V | D618 | 8-719-991-33 DIODE 1SS133T-77 |
| C906 | 1-126-964-11 | ELECT | 10MF | 20% | 50V | D619 | 8-719-991-33 DIODE 1SS133T-77 |
| C907 | 1-126-964-11 | ELECT | 10MF | 20% | 50V | D620 | 8-719-991-33 DIODE 1SS133T-77 |
| C908 | 1-126-964-11 | ELECT | 10MF | 20% | 50V | D622 | 8-719-923-60 DIODE MTZJ-T-77-9.1A |
| C911 | 1-126-964-11 | ELECT | 10MF | 20% | 50V | D625 | 8-719-991-33 DIODE 1SS133T-77 |
| C913 | 1-101-810-00 | CERAMIC | 100PF | 5% | 500V | D626 | 8-719-046-74 DIODE AU-01Z-V1 |
| C1200 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V | D631 | 8-719-109-93 DIODE RD6.2ES-B2 |
| C1201 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V | D800 | 8-719-991-33 DIODE 1SS133T-77 |
| C1202 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V | D801 | 8-719-991-33 DIODE 1SS133T-77 |
| C1203 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V | D802 | 8-719-991-33 DIODE 1SS133T-77 |
| C1204 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V | D803 | 8-719-908-03 DIODE GP08D |
| C1205 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V | D807 | 8-719-302-43 DIODE EL1Z |
| C1206 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V | D808 | 8-719-908-03 DIODE GP08D |
| C1207 | 1-126-933-11 | ELECT | 100MF | 20% | 16V | D809 | 8-719-018-82 DIODE RGP02-20EL-6394 |
| C1208 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V | D810 | 8-719-302-43 DIODE EL1Z |
| C1209 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V | D812 | 8-719-038-49 DIODE FMS-3FU-LF027-1 |
| C1214 | 1-126-933-11 | ELECT | 100MF | 20% | 16V | D815 | 8-719-908-03 DIODE GP08D |
| C1215 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V | D817 | 8-719-109-89 DIODE RD5.6ESB2 |
| C1216 | 1-137-366-11 | FILM | 0.0022MF | 5% | 50V | D901 | 8-719-030-11 DIODE SLA-570KT3F |
| C1217 | 1-137-366-11 | FILM | 0.0022MF | 5% | 50V | D902 | *4-203-258-01 HOLDER, LED 8-719-923-60 DIODE MTZJ-T-77-9.1A |
| C1218 | 1-126-934-11 | ELECT | 220MF | 20% | 16V | D903 | 8-719-923-60 DIODE MTZJ-T-77-9.1A |
| < CONNECTOR > | | | | D904 | 8-719-923-60 DIODE MTZJ-T-77-9.1A | | |
| CN600 | *1-508-786-00 | PIN, CONNECTOR (5MM PITCH) 2P | | D905 | 8-719-923-60 DIODE MTZJ-T-77-9.1A | | |
| CN601 | *1-508-765-11 | PIN, CONNECTOR (5MM PITCH) 3P | | D906 | 8-719-923-60 DIODE MTZJ-T-77-9.1A | | |
| CN603 | *1-580-844-11 | PIN, CONNECTOR (POWER) | | D1201 | 8-719-109-72 DIODE RD3.9ES-B2 | | |
| CN800 | *1-580-798-11 | CONNECTOR PIN (DV) 6P | | < FUSE > | | | |
| CN801 | *1-573-296-21 | CONNECTOR, BOARD TO BOARD 10P | | F601 | 1-576-132-21 FUSE (H.B.C.) 5.0A/250V | | |
| CN803 | 1-695-915-11 | TAB (CONTACT) | | | 1-533-230-12 HOLDER, FUSE : F601 | | |
| CN804 | 1-778-037-11 | PIN, CONNECTOR 6P | | < FERRITE BEAD > | | | |
| CN807 | 1-568-878-51 | PIN, CONNECTOR 3P | | FB600 | 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH | | |
| CN900 | 1-568-678-11 | TERMINAL BLOCK, S 3P | | | | | |
| CN902 | 1-695-299-11 | CONNECTOR, BOARD TO BOARD 50P | | | | | |
| CN1401 | *1-568-880-51 | PIN, CONNECTOR 5P | | | | | |
| CN1408 | *1-568-879-11 | PIN, CONNECTOR 4P | | | | | |

D

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| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|--------------------------------|----------------|---------|--------------|-------------------------|----------------|
| FB601 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | | Q604 | 8-729-024-35 | TRANSISTOR 2SC2808STP-R | |
| FB602 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | | Q605 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| FB604 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | | Q606 | 8-729-900-65 | TRANSISTOR DTA144ES | |
| FB605 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | | Q607 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| FB606 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | | Q800 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| FB607 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | | Q801 | 8-729-017-06 | TRANSISTOR 2SC4793 | |
| FB608 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | | Q802 | 8-729-016-32 | TRANSISTOR 2SC4927-01 | |
| FB800 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | | Q803 | 8-729-119-80 | TRANSISTOR 2SC2688-LK | |
| | | | < IC > | Q805 | 8-729-900-89 | TRANSISTOR DTC144ES | |
| IC500 | 8-759-192-71 | IC STV9379 | | Q900 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| IC600 | 8-749-010-84 | IC STR-S6708 | | Q1200 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| IC601 | 8-749-924-92 | IC TLP721(D4) | | Q1201 | 8-729-900-74 | TRANSISTOR DTC143TS | |
| IC602 | 8-749-920-61 | IC SE-135N | | Q1202 | 8-729-900-80 | TRANSISTOR DTC114ES | |
| IC603 | 8-759-144-82 | IC JUPC2405HF | | Q1203 | 8-729-900-74 | TRANSISTOR DTC143TS | |
| IC604 | 8-759-366-13 | IC L4941BV | | Q1204 | 8-729-900-74 | TRANSISTOR DTC143TS | |
| IC606 | 8-759-267-25 | IC LM2940T-9.0 | | | | | < RESISTOR > |
| IC800 | 8-759-103-93 | IC JUPC393P | | R500 | 1-215-457-00 | METAL | 33K 1% 1/4W |
| IC900 | 8-747-905-11 | RAY CATCHER ELEMENT SBX1790-51 | | R502 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W |
| IC1200 | 8-759-250-68 | IC TDA7264 | | R503 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| IC1201 | 8-759-502-21 | IC TDA2822M | | R504 | 1-215-455-00 | METAL | 27K 1% 1/4W |
| | | | < JACK > | R505 | 1-249-382-11 | CARBON | 1.2 5% 1/4W F |
| J900 | 1-764-606-11 | JACK | | R506 | 1-215-439-00 | METAL | 5.6K 1% 1/4W |
| | | | < COIL > | R507 | 1-215-888-00 | METAL OXIDE | 220 5% 2W F |
| L502 | 1-412-519-11 | INDUCTOR | 3.3UH | R508 | 1-216-371-00 | METAL OXIDE | 1.5 5% 2W F |
| L503 | 1-412-519-11 | INDUCTOR | 3.3UH | R509 | 1-249-443-11 | CARBON | 0.47 5% 1/4W F |
| L609 | 1-412-533-21 | INDUCTOR | 47UH | R510 | 1-249-443-11 | CARBON | 0.47 5% 1/4W F |
| L611 | 1-412-527-11 | INDUCTOR | 15UH | R520 | 1-215-457-00 | METAL | 33K 1% 1/4W |
| L612 | 1-412-522-41 | INDUCTOR | 5.6UH | R521 | 1-215-455-00 | METAL | 27K 1% 1/4W |
| L613 | 1-412-522-41 | INDUCTOR | 5.6UH | R522 | 1-247-863-91 | CARBON | 22K 5% 1/4W |
| L615 | 1-412-529-11 | INDUCTOR | 22UH | R523 | 1-247-863-91 | CARBON | 22K 5% 1/4W |
| L616 | 1-412-533-21 | INDUCTOR | 47UH | R524 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| L801 | 1-459-111-00 | COIL, DRAM CORE (CDI) | | R525 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| L802 | 1-459-104-00 | COIL, WITH CORE | | R526 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W |
| L803 | 1-420-872-00 | COIL, AIR CORE | | R527 | 1-215-437-00 | METAL | 4.7K 1% 1/4W |
| L804 | 1-406-903-11 | COIL, HORIZONTAL LINEARITY | | R600 | 1-216-490-11 | METAL OXIDE | 39K 5% 3W F |
| L805 | 1-406-675-11 | COIL, CHOKE 4.7MMH | | R601 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| L809 | 1-412-533-21 | INDUCTOR | 47UH | R602 | 1-215-473-00 | METAL | 150K 1% 1/4W |
| L811 | 1-406-979-11 | COIL, CHOKE 220UH | | R603 | 1-215-898-11 | METAL OXIDE | 10K 5% 2W F |
| L813 | 1-412-552-11 | INDUCTOR | 2.2MMH | R604 | 1-249-420-11 | CARBON | 1.8K 5% 1/4W |
| L901 | 1-408-603-31 | INDUCTOR | 10UH | R605 | 1-216-362-11 | METAL OXIDE | 0.27 5% 2W F |
| L902 | 1-408-603-31 | INDUCTOR | 10UH | R607 | 1-216-421-11 | METAL OXIDE | 12 5% 1W F |
| L903 | 1-408-409-00 | INDUCTOR | 10UH | R608 | 1-216-365-00 | METAL OXIDE | 0.47 5% 2W F |
| L904 | 1-408-409-00 | INDUCTOR | 10UH | R610 | 1-215-421-00 | METAL | 1K 1% 1/4W |
| | | | < IC LINK > | R611 | 1-216-354-11 | METAL OXIDE | 2.7 5% 1W F |
| P8600 | 1-532-686-91 | LINK, IC 2.7A (TCP-F75) | | R612 | 1-249-428-11 | CARBON | 8.2K 5% 1/4W |
| P8601 | 1-532-686-91 | LINK, IC 2.7A (TCP-F75) | | R613 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| P8602 | 1-532-686-91 | LINK, IC 2.7A (TCP-F75) | | R614 | 1-215-877-11 | METAL OXIDE | 22K 5% 1W F |
| P8603 | 1-532-686-91 | LINK, IC 2.7A (TCP-F75) | | R615 | 1-249-435-11 | CARBON | 33K 5% 1/4W |
| | | | < TRANSISTOR > | R616 | 1-215-471-00 | METAL | 120K 1% 1/4W |
| Q501 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | R617 | 1-215-901-00 | METAL OXIDE | 33K 5% 2W F |
| Q502 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | R618 | 1-247-863-91 | CARBON | 22K 5% 1/4W |
| Q503 | 8-729-900-89 | TRANSISTOR DTC144ES | | R619 | 1-216-425-11 | METAL OXIDE | 56 5% 1W F |
| Q601 | 8-729-025-04 | TRANSISTOR 2SC3852A | | R620 | 1-260-131-11 | CARBON | 470K 5% 1/2W |
| Q602 | 8-729-320-28 | TRANSISTOR 2SA1667 | | R621 | 1-216-425-11 | METAL OXIDE | 56 5% 1W F |
| Q603 | 8-729-802-78 | TRANSISTOR 2SC3502-E | | R622 | 1-249-437-11 | CARBON | 47K 5% 1/4W |
| | | | | R623 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| | | | | R624 | 1-249-393-11 | CARBON | 10 5% 1/4W F |
| | | | | R625 | 1-249-434-11 | CARBON | 27K 5% 1/4W |
| | | | | R626 | 1-249-430-11 | CARBON | 12K 5% 1/4W |

KV-29X1

Les composants identifies par une trame et une marque sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked A are critical for safety.
Replace only with the part number specified.

D

VM



Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

The components identified by shading and marked are critical for safety.
Replace only with the part number specified.

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK | | | | | |
|---------------------------------------|---------------|------------------------------------|----------|---------|----------|---------------------------|---|-------------|------|----|------|---|
| C1703 | 1-126-933-11 | ELECT | 100MF | 20% | 16V | R1725 | 1-216-451-11 | METAL OXIDE | 120 | 5% | 2W | F |
| C1704 | 1-107-357-11 | FILM | 0.47MF | 5% | 100V | R1728 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| C1705 | 1-107-638-11 | ELECT | 33MF | 20% | 160V | R1729 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| C1706 | 1-104-999-11 | FILM | 0.1MF | 5% | 200V | R1730 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W | |
| C1707 | 1-137-397-11 | FILM | 0.047MF | 5% | 100V | R1731 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W | |
| C1708 | 1-137-364-11 | FILM | 0.001MF | 5% | 50V | ***** | | | | | | |
| C1709 | 1-137-364-11 | FILM | 0.001MF | 5% | 50V | ***** | | | | | | |
| C1710 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V | ***** | | | | | | |
| C1720 | 1-107-667-11 | ELECT | 2.2MF | 20% | 160V | ***** MISCELLANEOUS ***** | | | | | | |
| C1721 | 1-137-397-11 | FILM | 0.047MF | 5% | 100V | ***** | | | | | | |
| C1722 | 1-126-934-11 | ELECT | 220MF | 20% | 16V | ***** | | | | | | |
| C1723 | 1-161-830-00 | CERAMIC | 0.0047MF | | 500V | ***** | | | | | | |
| C1725 | 1-128-551-11 | ELECT | 22MF | 20% | 25V | ***** | | | | | | |
| C1726 | 1-126-934-11 | ELECT | 220MF | 20% | 16V | ***** | | | | | | |
| < CONNECTOR > | | | | | | | | | | | | |
| CN1015 | *1-568-880-51 | PIN, CONNECTOR 5P | | | | ***** | | | | | | |
| CN1718 | 1-774-418-11 | CONNECTOR, BOARD TO BOARD 8P | | | | ***** | | | | | | |
| < DIODE > | | | | | | | | | | | | |
| D1701 | 8-719-991-33 | DIODE 1SS133T-77 | | | | ***** | | | | | | |
| D1702 | 8-719-110-88 | DIODE RD39ES-B2 | | | | ***** | | | | | | |
| D1703 | 8-719-110-88 | DIODE RD39ES-B2 | | | | ***** | | | | | | |
| < COIL > | | | | | | | | | | | | |
| L1701 | 1-408-409-00 | INDUCTOR | 10UH | | | ***** | | | | | | |
| L1702 | 1-408-403-00 | INDUCTOR | 3.3UH | | | ***** | | | | | | |
| L1703 | 1-408-409-00 | INDUCTOR | 10UH | | | ***** | | | | | | |
| L1704 | 1-408-418-00 | INDUCTOR | 56UH | | | ***** | | | | | | |
| L1705 | 1-408-418-00 | INDUCTOR | 56UH | | | ***** | | | | | | |
| < TRANSISTOR > | | | | | | | | | | | | |
| Q1701 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | ***** | | | | | | |
| Q1702 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | ***** | | | | | | |
| Q1703 | 8-729-017-05 | TRANSISTOR 2SA1837 | | | | ***** | | | | | | |
| Q1704 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | ***** | | | | | | |
| Q1706 | 8-729-017-06 | TRANSISTOR 2SC4793 | | | | ***** | | | | | | |
| Q1708 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | ***** | | | | | | |
| Q1709 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | ***** | | | | | | |
| < RESISTOR > | | | | | | | | | | | | |
| R1701 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | | | | | | | |
| R1702 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | 4-203-372-11 | MANUAL, INSTRUCTION (KV-29X1D) | | | | | |
| R1703 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | | (ENGLISH/DUTCH) | | | | | |
| R1704 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W | 4-203-366-71 | MANUAL, INSTRUCTION (KV-29X1E) (SPANISH) | | | | | |
| R1705 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W | 4-203-366-81 | MANUAL, INSTRUCTION (KV-29X1E) | | | | | |
| R1706 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W | | (PORTUGUESE/FINNISH/DANISH/NORWEGIAN/SWEDISH) | | | | | |
| R1708 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W | 4-203-366-91 | MANUAL, INSTRUCTION (KV-29X1K/29X1R) | | | | | |
| R1712 | 1-260-311-11 | CARBON | 39 | 5% | 1/2W | | (CZECH/ENGLISH/POLISH/BULGARIAN/RUSSIAN) | | | | | |
| R1713 | 1-249-384-11 | CARBON | 1.8 | 5% | 1/4W F | 4-203-366-61 | MANUAL, INSTRUCTION (KV-29X1L/29X1U) | | | | | |
| R1714 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W F | | (ENGLISH) | | | | | |
| R1715 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W | | | | | | | |
| R1716 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W F | *4-395-957-01 | BAG, PROTECTION | | | | | |
| R1717 | 1-216-476-11 | METAL OXIDE | 180 | 5% | 3W F | | | | | | | |
| R1718 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W | ***** | | | | | | |
| R1719 | 1-249-384-11 | CARBON | 1.8 | 5% | 1/4W F | ***** | | | | | | |
| R1720 | 1-249-400-11 | CARBON | 39 | 5% | 1/4W F | | | | | | | |
| R1721 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | 1-473-693-11 | COMMANDER, STANDARD TYPE (RM-839) | | | | | |
| R1722 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W | | | | | | | |
| R1724 | 1-249-400-11 | CARBON | 39 | 5% | 1/4W | ***** | | | | | | |
| < ACCESSORIES AND PACKING MATERIALS > | | | | | | | | | | | | |
| Q901 | 8-451-467-12 | DEFLECTION YONE (Y29X1A2B) | | | | ***** | | | | | | |
| | 8-453-005-11 | NECK ASSY, PICTURE TUBE (NA-297-M) | | | | ***** | | | | | | |
| V901 | 8-733-856-05 | PICTURE TUBE (SD-269)(M681CT60K) | | | | ***** | | | | | | |
| | 8-733-856-71 | INC | | | | ***** | | | | | | |

